AAACTTATAAGTTTTAACTCAGTGTAAAATGTCGCCGTCTGGGTAAAAAGAGTGGTAATC
TATGTATTAACCTAAATTTCATTATACACTTATGGAATTTTCTTGTTGACAGCAAAATAT
ATAGACATAATCCATTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 119>:

gnm_119

TTGTCCAACTATCTACTATACTTATGTGAAAAATACATACATATGCCCAAAATTGTTATC
AAACCAAAATGTTCTGGAAATAGCCCATTGGACATCTATTTATAAAATTGCATACACTTT
AGCTAAAAAAAAAGTACTTCAGTTTGTTGTTAGAATATTCAAATTCAAGAATTATTTTTGA
AAGAATTGTGTGCAGAATATCAAAGAAATTTTGAAATAATTCAGAATTGTGTACACAATA
TCAAAAAATCCATTTCGAAAATGCTTTGTACACTTGTGTTTTGGCTTGTATTTTTATTTT
AAAAGTATGATATGTAAAATAAATAGGAAGTGTAGGATTATTCTTTTTCTTGTCTAATAA
AAAATAAAAAATAATCATATGCATTTATGAAGATAATTAAACTTTTAAATACTTTTTAAT
ATTTCATACATATTATCCATTTCTCATTCCAAAAAAAGAGTTTAATTCTCAGTTTCAGAA
TAAAATGTGGGCCTTATACAGATTTAGTTGGCCCATTAATGTACAGGTGACAATAATCCA
CCAACTCGTTTCTCCTGACACAAAAAATATCTCATCATGTCTTCTTCTTCGTATTCGTGT
CTCTCATTTCCTTTTTTGACTCTTCTTTCCAAAAAGGATTAGATCTGACTCACTATTACG
TGTCACGCACAGTTCATTAGGTACGCTCGGAAAATTTTATCCACACATCTAAATATCTGA
TTTATGATCAAATCACCCATTTTTATTTTTCCTTTTGTAGCTTCTCAAATCTTTTGTCCT
TAATCGATTTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 120>:

GNMCG24R gnm_120

CAGTCAGGTTACTAATAAACTTTCATTATCCCTTCTTTGTTATATTACTAATAGACCAAA
AACATTTCAGATACTCAGTGCCGATGTAGAGCCTAAGAAGAAGCTAAAGCACATTGTCAT
GGCGGCTACAAGGTGAGTCTAAAAAACAAGTGTTCTCTTTAATGATTCTTCCCAAAATGA
TTGTTTGTTCCTTGGTTAATATATAGGGAACAGAGGTTTGAGAGGGTGACTAAAAATCTA
AAAGTGGCAAGAGTGTTTAACACATTGGTAGAGGAAATGAAAGCAATGGGGATCGCATCT
GTTGATGACTCAGAGTGTACAGAAGTTATGGCTCCAGTTGCACACAAGGACCGAAGCCCG
GTTCTACTTCTTATGGGAGGTGGTATGGGTGCAGGAAAGAGCACTGTGCTTAAAGACATT
CTCAAAGAGTAAGTAAAGTATCAACATATCTGTCATTAATCAGTGTTCTTATGCATTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 121>:

GNMCG25R gnm_121

ATATAAGAGTTAATCTTATAAATAGTTTTCTGAAACTTAATATACTATAACAATGTAAAA
GTCGTCGCTTTGTTATTTGAAGTGAAAATTAAGCAATGTTATGATATTTTTACTAATTAA
CTCAATATGAAAAACAAAAATCCTCTTAACTAAAACAGAAACATAAAAGACGACTTAGTT
TTTGCTTTAGATCTAGACTCATAACTCAAAAAACAATTTCATTATAAACTTTTGTAGATC
TTACAATTTTAAAATAAAATGTACATTAATGTTGAAAAGCAAAATCTTAAATTAGTGTAT
ACTACTACTTTTTTTTTATCACCGTGATAGATCATTAGATCCTTAACCTCAATCCCTAGA
GCCTGCTTATTGCCTTTAAGCATTGTGCAATCACTACCAAACACACTCAAAACTAAATAA
ATATAATTTATAACTTATCAAATAAAATAAATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 122>:

gnm_122

CCTCGAATTTGTTTTATTTTTTCATTAATCAGACCAGACACAGTTGGGATAAAATGAAAG
GGGCTTGAGGAGTGAGGACGGAGAACCACACGTGTCCACACAGTTGTGATAATTTTTTTA
TTCAACAATAAAATTGCAAGAGACGAGTTTGGTAAGTAAATCCGGTTGAACCGGTCCGAC
CGGTATTGACCGAAACATACAATCTTTTATAGTCTTCACACATTGTTCCCAACTTTAAAC
TTAGAAACCTTAGATGTTGTATTCAATAATTGTCAAACCACAAGTACTGACAGATACAGA
TTTAAAACATTTTTGTTTTGATCAATTTAACTAGATCTGTTCATTCACCTGAAAACAAGT
CTCTACAGAGTTCTCCATAAAATCTTGAGACAAGTTCAATGAAGACAGGACTCTTAAGAT
TCTTCCAACAGAAGAGAAGTTCCTCTATGTCCATTAAGTCATCTATTTTCCCTTCTTCAA
CAATCAGATGAATCAGATAGTTTTCAAAGCTTCTACAAGCATCTTCCACAGCATTGTCTT
CAAATGTATCTCTTGCGTTCAGCGATTTCCTGGTCCGTGAAGAGTAAGGTGTCGTGATGG
GTGAAGTGAAGAGCTTCTTGGCTGTTGCTGGCGTAAGAGGTGATTGCATAAACTTGGAGT
AATCATCATCGTTCACACTAACTGCAATGGCAAAATAAGAGAACAAAGAGATCAAGAAGC
TGATAAAATTTCAATGTTAAAACAGATTTTGTAGCGAAGTTGTCTTACAAGAGGAACTTC
TATGTTTGGCGTTGCTCATCTTAAGGTTCTTGCTTGAATTGAGGAAACAGAGACAAGAAC
AG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 123>:

gnm_123

CCAGTGATCTTATTTCATTATGGTGAAAGTTGGAACCTCTCACGTGCCGATCAACGTCTC
ATTTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACAGGGACACCAGGATTTATTT
ATTCTGCGAAGTGATCTTCCGTCACAGGTATTTATTCGCGATAAGCTCATGGAGCGGCGT
AACCGTCGCACAGGAAGGACAGAGAAAGCGCGGATCTGGGAAGTGACGGACAGAACGGTC
AGGACCTGGATTGGGGArGCGGTTGCCGCCGCTGCTGCTGACGGTGTGACGTTCTCTGTT
CCGGTCACACCACATACGTTCCGCCATTCCTATGCGATGCACATGCTGTATGCCGGTATA
CCGCTGAAAGTTCTGCAAAGCCTGATGGGACATAAGTCCATCAGTTCAACGGAAGTCTAC
ACGAAGGTTTTTGCGCTGGATGTGGCTGCCCGGCACCGGGTGCAGTTTGCGATGCCGGAG
TCTGATGCGGTTGCGATGCTGAAACAATTATCCTGAGAATAAATGCCTTGGCCTTTATAT
GGAAATGTGGAACTGAGTGGATATGCTGTTTTTGTCTGTCAAACAGAGAAGCTGGCTGTT
ATCCACTGAGAAGCGAACGArACAGTCGGGAAAATCTCCCATTATCGTAGAGATCCGCAT
TATTAATCTCAGGAGCCTGTGTAGCGTTTATAGGAAGTAGTGTTCTGTCATGATGCCTGC
AAGCGGTAACGAAAACGATTTGAATATGCCTTCAGGAACAATAGAAATCTTCGTGCGGTG
TTACGTTGAAGTGGAGCGaATTATGTCAGCAATGGACAGAACAACCTAATGAACACAGAA
CCATGATGTGGTCTGTCCTTTTACAGCCAGTAGTGCTCGCCGCAGTCGAGCGACAGGGCG
AACTcGmAGTgAGCGAGGAAGCACCAGGGAACAGCACTTATATATTCTGCTTACACACGA
TGCCTGAAAAAACTTCCCTTGGGGtaTCCACTTATCCACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 124>:

GNMCG27R gnm_124

CAGTAGAGGCCATACCAATTATCGGCCTTGCTATAATGGATTTGGTGGAAGGAGTCCGAT
AATCTAACTTGCATCTAATAAATTCAAACTTGGCAGCGAGCCAACTTGCATTGAACCTCA
AACATTATGCTATTCATTCTTTACTTAAACTTTTGATCTGAGAAATTGTTTGTTTTTATG
TAAGTTGGTCGCCTTTATTACAAAAGATTTTGTTCTTACTTGATAGTTACTATCTATTGA
AATGAAACAAGTTCTTATATCACTTTTATGCAGTTTGTAGGAAATGCATTTATGAGAAAA
TCACAGAGGATGAGATAGAGAGCTGTCCAGTATGCGATATTGACCTCGGGGGGTACCCAA
CTGGAGAAACTAAGGTAAGTTCTTCTTCTTCTTTATTCCTTACACAATTTTCTCCTCGGT
CTTGGTTTAGCAGTGATTCCTTGTATAGACTGTTAGAAGCCTTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 125>:

gnm_125

TAATTGGAAACGCGGCCAAGAAAGTGAACACGCTTTCTCTACACGTCTTTAACTCCACAG
CTACTTATGACTCACCTGCTTATTTTAATCTCCTCAAAAGTCTTTCCTTTTTTTACAATT
TTTTCCAAAGACTCAATAATTGTGGTATGATATGGAAGAGAGCATTAATGGCGTATCTTC
AACGCCCAAGATTTTGCATGTGGCTCTATCGTGATTCGAGTTTTGATCCATCTCTCTAGG
TATAGAAAGAGAAAGAGATCAAACCAACCTTTAACAAACTTATGGACGTAACTATATCAC
TTACAAGCCAAGTCAATGATGAAGAAAACATAGACTGATGATGTGAAGAAAAAAAAAAGG
TAGATAACTTGTGGGATTCTTGATGTTAAGTTTAGAGAAACAAAGTTGAGTCACTTCTCT
CTTTCTATGTATTCATCAATCTACAACGAGTAAATTAGCAACAACAAAAAGGAACAGAAC
AAAACAAAGATCAGAGGGTCTTTGTGTATCAATAGCTCTCATTGTTTTCATTCGGAAAAG
ATTCGAACATCGCACGCTGGTTTGAGACCATTTATCACATCACTCTGCTTCACACTCTCG
CACGCAATAACAATTGGTATATGAACCTTAAATCCCAACCAATCAACACTCAGTTTCCCT
CTCAAGAACACATCAACCAAAGCTTCAAGCGTCTTCTCTTTGTTTGTCAGCAATGTAGCA
TCAACATCATACACTTTGGATTTTCTGAGTCTTGTGAGGATCTTCAAGGAGGTAACATTT
CCCGGGTCCTGCTTGAATCCAGAAAGTGTCTTCTTTCCGAGGTTTATGTTCTCAGAAGAT
ATATCAGCTTTCATAGGACTGTAATATAGCACCGTCTTGTCATTATTATTAGAGAGCTGA
AGCACCGTGTTCAAGTTCGCATTCATCAGAAGATCTGTCGATGATTTGGCGATATCCAAT
CTCGAGAACTTGAGGTTTGTGACAAGCACCTGAGGTAGTATAGATTTGATTGAAGAGTTT
GCAGACAATCCTACCAACAAGACGATTATAAGGACAACAGAAACAAACATGCAGGTGCAA
GCGCAGCATTTTCTGAAACATCCAGAGGCGCATATTCTCTTGTCCTCCTGACCGATATGA
TCCACAAAGGAACCCGATTTTCTACTCCGATCGGCCTCTTCTTCCTCTCGAAAGCCAGAC
AGTCTCGACGCAGAAGGAGGCCGCTTAAAAGACGAAGCCTTTTTCGGGTTTTCAACATCA
TCAAACCTGTTTCGAGAAATGGAAGGGCTTGAGAATCTTGAACTCAGATCAAAAGAACCT
TTGCCATAGCTACTATCTTCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 126>:

gnm_126

TATTTTTCCCCCATAATTTAATTCATGAAACTGACTTGGATAGTCCGAACCACTAGATTA
GATTCGCATCATACAAGTACAACTGGATTATAAAACTGAAATAGAAATTCAACTATAAAA
TTCAAAGCACGTAATGAACTTCTTCTTTTTTCACCTATTGTGTTTCCATATAATTCCACA
AATGACATTTTTTAACTGGTAGTGAGGATAATAGGATATGATGATTCTCAAATTTCGAAT
ATTTGTATATTGGTTGTTAAAAACATTCGGATAAGTCACAAACATATAAATCAGCATAAC
CTTGGAAAAAAATTACGTTTGAAATCTAGACTAATACATCCAATCCAATGATTAGTTTGA
ACTACATGCATAATTGCATACTAAATAATGATCAAGTATACTAAATTCTGGAGTTTGATA
TGATTAAGCGmAksTTAATGTTTCGGCCATGTGAAACCTCGTCTTAGAATAGTTGTCATC
ACGCGATGTTGGCTAACGTAACAAGAATCATCAATCTCGTACCACACATGTTGCACATGA
GAAACAAACAGCCGCAATATTCTTGATTCACCTTTCTTCTTTTCTCTTTTAACCAAAAAC
ATAAGCTGCAATATTCTTAATTCACACTCGGGACCAAAACATGTTAAAGAGTTATTGTTT
TGTCATTGGTATTCAAACTCGTGATCTTGAAGATTTTTTTTTTCTCTGGTCACAACATCA
TAATCATGTTATTTTCTAATATTTATGTATACTTAGAAATAAATAATATAGTTAGGATAT
TTTTTAAGTAATTAATTAACATGCAAAGGATTTTGTAGGACGGCATGTAAGAAACAGAAT
CAACTGATAGAAACTGCAATAATGCCTGATACACACACACAGCTGTAATTGGGGCTCACG
TTCCCAGCTTGCAATAGACATTTTTTTGTTTATCTTATTCATAAAATATATAATTACAAT
ACTAATATCATGGCATCTCATTACCCCTCATATAATTAAAGTATAAAAAAACAATAAAGT
ATACCACATTTCTAAAAGAAAAGTACGCATTATGAACTTTATTAACTCAAATATCGAGTA
TCAGAGTAAAAATATGTCATATATAAGCCATATAGGCTTTTGTGAAAATCAACGGCATGT
GTTAATGTTACAGGAATGAATTTGGAATCTTTAAAAGGGAAAAAAAACAAAAAATGAAAC
TCACTATGCAAAAAACCATGTCTACCTAAATTTGGTCACAAACATGTTTTACGTGATTAT

ATTTGCCTTCATGAAGTATAGACCAACAAGAACGTCTCAAATAGTAAAGACAGAACGTGG
GTAAGTGACAAACACGGTTGCATGTAAAAGGTAGGTACAAACGCTATATCGACAACCAGA
TATGGTTGGTGTTTATATCTGTGTAACCTAGTGGTGCATGCTCAATGAAAGATATAACCA
AAAATAACACTTTTTTCCTTATGCTTAAGAAACATATCAGATTTGGTGATAACTTGAACT
AAAGACCCAAGATATGGATATGAATTTCTTACCTAAGTTTTTAAAGAGTCAAGAAGCAAT
GCCTTGTTAAAACAAACGAGCTGAAGTGTGCGTCTTTCCAGCATTATCATTTGTTGGAAC
GGGTCTCTACTTGTCTTTTCTCCTGATTCTGTCTCAAGATTCATATGTTAGCTTTTTGTA
ATAATTCTAGGTAATAAACAAATTATCTTAGCAAACAGAATTAAATTTACCTCTGTTTCT
TTGGTGACGAGCTTCCATGACCTCCTTGTTGGGGTTACATCTAACAACACTTAAGAAATT
TTTATGTGTCAGTGTAACATATTGTAAGAGATGTTAGTGAAGAACACAAAGAAGTGTGTG
ACAATGTTCACCGTACATACTCATTTTCGTCTGAGAGGCTCTTTGCAATGGATGATGAGG
TCTCATCTCCCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 127>:

gnm_127

CCCTGCCTTTGCGAAACTTGGATAATCGATATTCCTTTTTAAAAGATGTGATCTTCGAGT
TGGTGAATCTGAAATACAGAAAAACCAAGGAATTAGCAAATAAATAGGCAAAACCCCAGT
AATTCCAACAAATATGTAGATAAATCACAAATATTTCTCCAACTTCAAACACCAACAACA
GAGGAAACTAAGAGATACTGAAAGAAAGTGAACTAAAACTTAAGAGATATGATTTAGAAC
TTCCAAAAGAATGATATGAAACACTGAGTCAATGAACCTCCAAAAGACATACGCTTAGAC
TATAATTATTTTATGAATACAACTAACAAGGTCAAATGAAAATTCTTTGATAAAAGCATA
TATGCGTGTTAGCTGTTATTCCTAATTTAGTTGAGATAAACCCACCTCTAATGTTGGACC
TCCAGGTCGTTTCCAGGTAATCCCTAAAACGCAGAAGACTTTTAATGTCAAAAGGCACAG
TATCACCATCATAAAGTGACGAAATAAGAGAGTTTGAAGACTACCTCTTCTTTTTCCTAT
GGTGTTCTGTAGAAGAGCGACTCTCAGTGCAATCATTGCAATATTTCAGGAAATCAGGGT
TCAAACTCTCCTTTTGGCATGGCTGTTCGGCCTTCCAGTAAAAACTATCTTCCCCGTCAT
CAAGAAAGGCGGGCTTAGCTGGTTAAGGAAGGACAAGAAATCAAATTCATACATCTTTTT
ACTTGATCTCGTGAGGAAAGAAAGAAACAGGTGCACATATCTTATATCAGAAAAGATTCC
CTATAGTTCATATCACACCACATGAAATTGTGTAATATTCACTAAGAAGTGACATGCTAC
TTTGATCAAGTCATGTTTTCCATAAATTTCAGAAGGTAGTGGGTTGCATAGATGGTGATT
TGTGAATGAAAAGAAAATAAACCTTTTGCATAAGACATTACCATTCCATTCATCGTCAGA
GAACCTGCTGTTGTTGAAATCTGCAACGTCACAGAAGTAATTTCTAGAGTCGCTATATTG
TTTGTGCAAGTGATCACTGAAAGTTTGCAGTTTTTGCTTTCTGCCCCCATCTTTAGCATG
TATGCCAATTGGAGACCTATAAAGGCTGTCATCTTGGAACATTTTGCTACTTTGAATCAT
TGTGTCCTGTAAGAGGGAGATGAAAATATCCGGTCAGGAAAAAAGAGTTAGAAATGAATG
GAAGACAGCTAAAAGATAAGATGACGAGACTTTGTTACCACTTCGTTCTCAAAGTCGTTG
AGCCTTCCCCTGACATGTGATGTATCTGGTTGACCAGTATCCTTCCATGGAGAGGAGCAC
CGGTACACAAAAGTTCTTTCACATCACAAGTTAAATAAAATCACTGATCTATATCTTAAG
TGGTACATATTACTGCTAATGTAAGAGAAAACAGTATAAATAAATAAAAAGGAAAACAAA
CAAAATGCAAACAAGTCCCAAGAAAAAAAAATACTCGTGAATGCTAATCACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 128>:

GNMCG29F gnm_128

CCATACATCCAGTTCCACACAAAACTGAGTGGAAAACAACAGAAACCTGACCGGAAGAAA
GTGGTGAGGATGGTGAAGAGATTGTTATCAGACCACCTAGGGATTTAAGACAACCACCAC
GGCCAAAGAAGAGGAGAAGTCAAGGAGAGGACCGTGGACGTCAAAAGCGGGTTGTTCGAT
GTAGCCGGTGTAATCAGGCTGGCCATTTCAGAACAACTTGCACAGCTCCTATATGAAAAA
CATATGACATCTCTCTTTAGATGTTTTACTTCTTCTCTGATCTGAATTTATTATTTCTTA
TACTTAGGTTTAGAATATTATTTTCAAAGCCTTTCTCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 129>:

gnm_129

TTGCATAAAATAATATGACTAATTCGTGAAAAGACAGGTCTTCCCGCCTCTTCGACCTTA
TTGACCTCATCAACCATCTACTTGAAAATTTACTCTATTATAAATATCCGTCCTCTCACC
TCTCACTTTTAAACAAAACTTAAGTTTTCTTAAAGAGTCACTAAGAACTTCTAAGATTTC
AAAGAATGGAAGGAAAAGGTGGTAGCgGTGGAGGAGGGAAAGGTGGTGGTGGAGGAGGAG
GAATAAGCGGCGGTGGAGCAGGAGGGAAAAGTGGTTGTGGTGGAGGGAAAAGTGGTGGTG
GTGGTGGAGGAGGGAAAAATGGTGGTGGTTGTGGAGGAGGAGGAGGAGGGAAmGGAGGGA
AGAGTGGTGGCGGTAGTGGAGGAGGTGGCTACATGGTAGCGCCGGGGAGCAACGGATCTT
CTACCATTTCAAGAGATAAGTTTGAGAGTGATACTAAAGGTTACTTTGATAATCTCCATG
GTAAAAAGTGAGTTTGGTCTTTATTGATCATCTATGGAGAATGGAGTGAAGATGGTTTAC
TACCAAATATATTATGTAATGAATGAATAAATGATAATTTGCTTTATTGTCTTACCCCAT
GTTAACTATATGTGTATTCATCAAGAGACTCTAAAACTTGTGTAATAATCAGTGATTGAA
ATGTAAATGTAAGATTAATTTATCAATTTGGTTCTCACTGACCATTATGGATGGGCTTTT
GAATACATCCATTTCAATTGTTTGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 130>:

GNMCG30F gnm_130

CCAATTGCGTTTCAAAAAATTGCAGGCAGTGGGACAATGGATGCAAGATAGGGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGAAGGTACAAAAGGAAAATAAAT
CTTGTGGCCCCCAAATCACTAAACCAAGGGAAAAATCAGGCTGGAAACTGTCAGGCAAAC
CTGCCTCCCATTTTATTCCTAAATAAGATAGCTAGAAATATAAAAGAGCTACATACCTCC
CTTACAATTTGTCCACAAGGAAATTCCTTGTGGGCCTCAAGATCTTTATCCTAAGACATT
TCTGTTGAATTTCACCCTGGCAATGTAAATTGATGGCTGATCTTCCCAGGTGCAGGACAG
AAAGTCATGCCTCTGCACACCTAAGACAAATGCATATCTGATTGCTTCCTCTGCCCTGTT
GTTTATGTAAAAATGCAGATTCACTGACTAGATTGCATATTCAGTGAGAAGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 131>:

gnm_131

TATGAGAGCAAAGCTTTTGTTGCGGTTATCACCAAGGACAAAGACATAACCTTTGGGGAC
AAACTGCAAATAAACATGAAAAGCAAACATTGTTAACAATCTGATACTCAACAAGGATGA
ACAAGTGGTAAGTAAAAGTTGCTCACCATTGGTTCCATTTCATATGACATTGGTTCTAAG
ACAAAATCTTCTTCTTGCACAATGTCATTCACAAAGAGCTTCCCATCACGAACCTGCATG
GTACATCATCTACAGGTTAGACAAAAATTTGATTAAAAAAACAGAAAAAGGGGTTAGGTC
CATTTCTGAAAAAAAAAACTTGTAGTCCGAGAAAGCCTCTACACAAATAATACCGACCGA
GGTGAAAAAAAGACTTCAATGGGTGAAAAAGATCAATCAACAAGTGGATTGGATATAAGG
GCTTACTTCAACCCAGTCACCTTCACTTGCCACTATCCTTTTTATGAATACATCATTGGA
ACTGTAGCCATATTCCGGATATTCCTGCAATTCAAAGGGAGAATATCATCAAATTCTTTA
GTTTACAAAAGTTGATACATCTGAATAACAAGAACAATGAACTGTGACTTACCAGCAAAA
TTGGAGGAGCCTTGAAGATTACTATATCTGAAACCTCTGGCTTCCTGAAAAAGTATGAGA
CCTGACCAACACCAAGGCACACAAACGGTCAGTTTAGTCATAAAGAGACTAAAACAGCCT
CATTCACAAACCTACATCAAGCAACTAAACAAAGCTCAAGGTGAAGTCTAGCAATCACCT
ATAGAAAAACCTTCACATTCAATCACATAAGAGTATCATACAACTATCTCCATCCTAAAA
CATGCAAGAACTAATTCCAGAACCGTGTAGAAAAAGTCACCATCCATCATCAGCTATGTT
TTATGATTACAATTATACATGAACAGACTCAGAATTCATACCTTCTCCGCCATAACGCGA
TCACCCTTGTCCAAGGTAGGGTACATAGACGTTGAAGGAATCGACTTTGGCTCCGCAAGA

GCTGATCTAAAAAGGATAGAAACAGTAACCGCCGTGAAAGCAGCCTTAGCATCCTCAGAA
CAAACACTCAAAAGCTTATTAACCCATCCACTTCCTCCATTCCTCGATTCCTTATCATCA
TCATCATCACAAACTGTTCCTCCTTTATCCACGTCATCAATCACCGGTGGATTCTTAATC
CATTTCGACCCTTGAAGAAACGGAATAATAGAAGAAGCCTTGAAAGATGAAACCCCCAGA
ACATTCATCGTTGACGACTCATGACCCGTCGTTGACTTCAATATCGAGATCAAACCCATC
ACAAGCGGGCTTTGACTTCCTTCTCCGATGAGCTCCCTCGCGATGCTACCATACATCGAT
GCAGGTCGATTCCGAGGAGATCTATCGAAATCACGCTTGTGGGGAGAAGAATCTAGGACG
AACCAAGGATTCAAAGCAGTAACCACCGGGACCAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 132>:

gnm_132

CAGCCATTAATGTTAACATTTCTTTATGTACATTTCTGATCTTTGGTTGTGTGTTTTCTC
TCATCTATAGGTGCGACTTCAACTGGAAACACTGTTAGCTGAGAAAGCACGGTTGGCTCA
TGAAAACTCGATATACACCCGCGAAAACCTCTATCTGAGAGGAGTCGTCGAATATCACCA
GCTAACAATGCAAGATGTGGTCTACTTTGATGAGAAGACTGAAGAAGTAACGGAGGTATA
TCCCATTAATGTGTCTTCAATGTCTTCTTCATCAGATAACTCTTACAATCCAAATCCAAG
TTTCTTGGAGCTCAAATGAAACACCACAACAACTATCAGTTTCTGCTGTTCTTGTTGTGA
ATCAGACAAGAAGACAAATCGTTGCCTGTAATTGCTCTGTATTTGTAGAAATATATATAC
TCTGTACTCTTTATwTGGGGTGGGGTCTTAAGAATTAGCAGTGAATGtAtTTATTACCCT
TAATTAACTTAAATAAAAGAAGAATGTTCTATTATTTCCCTGAAACAGTACCATGAAAGC
TAAAAGTTGAACTGGTGAGTAGAAATTAGTCAATTATTAATGGATATTACCTGAAATTAC
AGAACAAACAATATATATATAAAGCTACATTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 133>:

GNMCG36R gnm_133

AAGCCTTTTGGCTCTTACTGTTGATGAAACGAATTTTCTTACATAATGCTGAAAAGTTGT
ACATGATTATGCTGAGGTGTGCCACATATGGAAGGTTCTTCCGTAATTTTTGTGGCATAG
TGTGAAGTTAATCAAGAAAAGTCATTTCGATTCAGAAGCAGTTATGACCTGAATATGTTG
GCTAGTTTAATACTTTCGCTGACACCAACAATTTTTTGTTAGAACCTGAAACAAATCTCT
TTAGTACTACACTCTCTCTTACTAGTTGGTCACCAGTAAGAGCTTTGTTGGTGGCGAACT
TATTCATTTTCTAAAGAACCACTCTTATGTATTTATTTTAGGCCTGACCACATTTTGCAA
GACTTGAGAGCCAAATTATTTCCTCTAAAACGTAAAAAGGAGAGAGCGCCTGAAGTTGTG
TCCTCCATCTCATTACCTGCAAAGAGGAAGGAGAGGTCTATCTCGTCTTTGGTGGTAAGC
ACACCCAGGGTTTCAGCACAAGCTGGTACAACAGGAAAAAGAACAAAAGCTGCTACGAGA
AAAGATGTAAGAGGTAGTGGTTCATTCACTAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 134>:

GNMCG36F gnm_134

CCATTATTGTTTTTCTACTTGTAACTGTTTTAGAAATATATTGATTGTAAAGAAAAAATT
GTTTTTTAGATATTATTTTTTTAATTACAAAATTAGTAAACCTCACTATAAATTAATAAT
TATTAAAATTATCGATAAATTAATATATTTATGAATATATAGAATTTTTCGTTTCTAATA
TTATTAATTTGTAGAGGTTTTATCGTAATTGTTTTTGGTAAAATGATTTAACCTCTTAAT
TAATCTCCTTATACCATTTACAAGTCTACTTCATGCAGTTTTCAACAACTGTCATAATTT
GTGTTTAACAATATTATAAGAAACAACTTTTAAAAAAATTAAACCAACTAGGCATTTGGT
TGAAAACAATTACAAAAAAAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 135>:

gnm_135

TACATCAACTCCGTGAGACTTTTGCATTTGCTACTTGGAGCTCTACGGTTACTTCCGTTG
AAGCGCTCTGCAATGAATGACCTTTTGACTGTTTCTACTACACACGTTTTTGACGTTTAT
CCTGTTTACCTTTTGTTCTTGTACTACAGTGATCTTTGAACCTGAAAGTGTTTCTCAATA
TATGTTAAACTTGATTCCAGTTAGATTGTTTTGGTTTTTATACAAGAGATTTGGCCTATG
GCTGTGGAGTAATGAGTTATACTTTGTTTTTTATGACTCGGTTTAAGAATCTCTTGCATA
AAACTGACsAAGCAsACTCTTTTTTGACAAAAAAAAAGTATCACAACAGAGTAAAATCAAG
ACCTAGACGAAAAGCGAAAAATGACAAAAGCCACAAGAGTTGTGGTAAGCAAAATGTTTG
GGAACCGCTCGAATCTTTTAAAGCATTTGGACATCCATGAGTCCGGCGGCAAATGATGTG
TAGAAGGGTATGTCACAATCTTTGGAGCAGAATCCGAATGTCGAAGTGGAACCATATTCT
CTACGAAATGAGATAAAACACGAATGTCTGCAGCGATAAAATGGACTTCGTTTGTTTCTG
GATTATATTTGAACAGCCTCTTTTCACTGTCATGGAAGAAAAGATTCCCTTGCTTAGAAA
CTGTCACTGGTCTACACCACAACCTCCATATCCAAGGGTGAAGAGCTCTAGGGAATAAAn
CAAATGAGTACGTCTTGGTCCATGTATCTTCCGGATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 136>:

GNMCG37F gnm_136

CCTAGAAAATTTTCCTTATAGAGATATATACAGACAGTAACAAATAACTTTCTAAATTAA
CTCTTCTTATCACATATATAACTGAAAATGTAACCAAAATACAAACTGGATCCAACTCAT
ATATACGTCAAATGTTTTCCAATTCAAAATCTAACCCAACACAAATTAAGAACGCTAAAT
TGATCTATAGCTAAATGTCATTACACAAGTAAAAAGAAACCGTTTTGTAAAGTTATAATC
AATCTGACCATAGTCTAATTTATTTCGTCACAAATATTTTCTAAACGATGATACTCTTAA
ATGTTAAAATTCAATCATATATTTATACCCAAACAAAGCGGCTAAGTAAGATAGGAACCT
TTAACACAACCATAAATAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 137>:

gnm_137

TGTGTGCTCGCATTACGACATAAAAATGTAATTTGAGTTTTATTTCATTTCTTTGACAAA
AAAAAAAAAAAAAGTTTTATTTCATTTATTTACCCTTTTTTATAGATATAAAATATGTAA
ATCAAACTTTTATATCGTACAATTTAAGTATATATTTTGTGTTTTATTATGTCAAGTTCA
TTCATTAATTTTAAATTTGATACAACAAAAGAATAATGTAGAAAGTCAAGTATACAATGA
TGGATGAATGGATTTACATAATGCTTTTTTGGTACGTAAACGTTAGTATTTGCTAACAAA
GTATTAGTTGCGTTATTTTTTTCAGAACAATCAATCCTAATTTTAAATATTTTTATTAAA
AACACTATGATACATATTAATTTACATTATAATTTGTTATTGAAAATAAAAACGGAGCAA
TTTTGTCATAGGTTTTTTTTTTGTCAACCACACAAAAATGGTTTACAAATTACAATGTAA
CTTTAAAAAATGGTATACAACTACACTAACAACCATAGGTCACAAGAAACCACACTTGCT
ATTTTTTCTAGATCCAAATTTCACAATTTAAAACCACACAAATTTTCTAGAAGGAATCAA
TATTTGGAATGCCATTTAATAAAACTTTAACTGTTATTTTTAAATATATTGAATTTAAAA
CGAACTTTGAATGTTTGTGTAGTTTTAGACGAACAACTAATTTGTCAAGTTAGCTAGGTG
ATCAAGATAGAAAAAAGTTCGTGTGAATCATATTTTGTTCATGAAAATTTGGTGTAGTTT
ATGGTTATGAGGTTATCTCATATCTATGTATAAAATTAGAATGTAGAATTTTGTCTGACA
TACTTGTTTAAAACTTAAAATTATGATACATATATCACCTATTCTTTTTAATTCTTAACT
TTATAATCCAAAACTGCAAGATCATTTAGGCCCATTGATTTGAATATTTGTTGCTTATGT
TCACTCAGAAGTCAGAAACCATACCATATCACATGTCTTTTGCTGAAACTCATAAGCCAA
CTGTGGTAGGGGAGGAATTTGCAACAGTGGTCCTCTCTCTTCTCAGAGTTCATTCTTCCC

TTCTTCACAGAAAAAAAAAAACCCTTAAGGATTAAATCTCATCACTGTTTCTTTCTTCTT
TAATCACATCTCAGTTTTATGTGTCAGTGGTCCTCTCTCTACCTTCAACGATTATCCAAT
GTTCTTCATGCATATATATAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 138>:

gnm_138

ACTAGATACCTCGAATAGTTCCTGTGGAATCAAACCAGAATTAGTAGACACATAATCTTA
CCAAATGTGAAACAAGGGTGCTAATAAGGGCCTTGTTACAGATCACGATCGAAACAGAGG
ACACAACGGATAAACTCAAAGCGCCGATTGTTCCAAGCTGGAACTTCTGGGCATCGCTCA
TATTTGCTCGCTTCTTCTATCACGATCTACGATGATCTAATAAAACCAACAATTACAGTA
TGGAGGAATCAAACTCACATCACATGCTTAGCCAATCAAAACCAAAAGTAACTGTAAGAG
CAACGCGrAGAAGAAAAAAGGAACCTCATTTACGAAAATGCGAGAGAATTCAAAGCAGGA
GAAGCTGAACTGCACCAATGGAAGATAATAACAACACGTCAAATTACAAGCAGAACAAGG
ATAGTGTAAAGTCGAAGAATCCTGAAGCAATAAACCCTAGATCTATCGATGAAGATAAAA
AATAGTTTAACGGAGATTCAGGAGAAGAAAAGGAGAGAAAATGGAGAGAGAGACCTTGAG
AGAATCAGACAAGTTCTAATGGAGGAGAAGAGAATCTGTGAATTTGGAAGAAGAAGCCTA
TTTTTGTAAATTCCAAGAGATTCACCATACGTCAAAATTGGGCCTATATGTAATTAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 139>:

gnm_139

CCATCTCTCAAACTCTTCAACGAGCTTAATGAAGAGAGAATCAGCACCAGGCTCTTCAGA
GAAGAAGCTGTATATGTCTTCCTCACAGCTGCCTGATTTTCTTATGTACTCATTAGCTAA
TTTGCAGAGATGAGGACATTCTCTCCTGTCCTTGAATCCCATCTGCCGCACTACAAAAGA
CACAAACAACATTTCCTTAATATGCATCATAATCTAAGATCAGGAAGATTTCAAGGAAGC
TATGTAGATTGATTTTACCAACATAGTGAGAGAATCTCTCAAGCTTCTCATGGCCTTTGT
GTTTTTGAGACGATCTGAGACGAGGGATGTTCTTGGAGTGACGTAGCTTCCTTAGACGGA
AGTGCAGTGCAAGGGCTAAGAGTAAGCCAATGGATGAGATTACTAAAATCTGTGCGAAGG
TCGTCGTGTTGTTGTTGCTGTTAAACTCTGGAACACACATTGATCTGGATTTGCTTTGGG
GATCATCAAGAGACATGAGATTAAGATTGTTAGAACTCTAAGATTGGGTCCATTCTTGAG
TTTGTTTTCTGTTACGAGACAATGTATCTGCTTTCTCCACGTGTGTTGTACTAAAATAGC
TTTGAGTCCTATTACTCCGGAAGTTTCTTAGTTTGCTTTTTGTGTGATTTGACTCACCAT
TTTGTTTTAATAACCAAACTCTCATCCCCAATGTATGATATAATAGTGTTTTGGCAATGG
TTTTATAAAATCTATTCGTTAAGGCTATAACATAACAAGAATCTGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 140>:

GNMCG42F gnm_140

CCTGCAAGCAGAGACGTCTAGAGGATTGATTACGTATCCTACAAGTAAGAAATAGAAGTT
ACCGGCGACATTGATGTTCTCGACGATGTAAAGAACATTGTCCTCGTTGATTTCTCCCTT
CTGCTCAGCTTCAAGGATGTGATCAATGGCACATTTCAATCCTTCACTACCTGTAGGCTT
AGAACTCGCAATTTGCCTGTAAGAATGAATCATCAATGTCAATTTCCCAAAATCAAACTC
AAAAGATAAAACTAAAAATAGAAACAAAAAAATGAACTCACTTCCTCTCATCAACAAAGT
ACTTCTTGAAAAGAGCGATTCTTCGATCTTTCACATCTTGACAAATCTTCAAATAGCCTC
TGAGGAATGGTCTAAGGATAGGAATGAAATCTCCATAGTTATACTCnAAGCTCTGAGCTA
ATCGACTTCTCTCACCATTCAAAGCCTTAAGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 141>:

gnm_141

CTTCTGTTTTATATGAGGTATCCACTCGGTCTAATATGGAAACACATAGACCGTAGTTCT
ATACATTGGTTCAAGTCTTGTGCTTATCAATATGACTGTAAGGTCCCCATAAATGTTTAA
ACTAAAGTTAACTCTCCCTTTTATTTCCGACTTGTGTACCGGGTGATATCTTATGATCTG
GGACTTTTTCGACCCACCGGTGTTGAACCTTAACTACTCTATGTTTTTTTTTTGTAAACA
GGTAGAGATAACATGTATGGGAGAACCAGTGATCCCAACGTTGCAGCTTCACAGCTTAGT
AGACCTATGGTTGGAAACAACTTCTAAGCATCAAAGAGTCGCTGCGTCAATAGGTTCATC
TGCAAAGGAATTTGTAATGGTGCTAGTTTATTCTCGGAAGCTCCCTGAATGCAACAACTA
AAGAGCTATTCATTGAATCTTTTCTAGACCGAGAAGAAAGAAAAGTGCAGGAGCAGTGGA
ATGTCTTGTGTAGAAAGAAACTTAGCAATTTATATTTATTTAATTGTAATCTTAAAATTT
GAAACATTGGTGTGAGACAGACACTTTGTTTGTTTATCCAAGAAGATTCAAAAATGGCTT
TTTAAAGGAGATTGTGTCCTTTTTGGATATTTGAATGTATGATTAGGATAATGTTGTCAT
TTCTATAAATATTTGTTTCCTTGTTTGGACTAAATGGAGAAGTACACGGAATCCTTGTGA
ATCGAATGACTTAGCCATTATTGAGAAGTCAAAAGAAAAATAACCAAAAAAAAAACTTGTG
AAGTGTACCTTTAATACAAGAATTAAAGAGAGATGTATAAAAGTTTTCTAACAATTTTGT
TCACCAAAAAAAAAAGTTTTCTAACAATTTTTAATACAAAATGCAAAATTAAAGATGAAT
TTTCTTATTTCTTTTTTTAAAACATAATTTTGAAGAAATTTGGTTGTCTTTTTGCATTTG
TTTCTAGATATTTCTAAACTGTTGGGAAATAAAAAAATTTGCACACAAAACATAGTTAAA
TTCACGTGGTATTTATAGAGATTTACTTCAACCAAATTTGGATTTTGGGTCATTGTTTTA
TGGACGGATAAACTATCCATTAGTCAAATTTCCACAAAAATAATATGTGAATTAGATTCG
ACAAGGCTAATTCCCCCACAACATACGATACTAGAACAAACGTCTCTGACTACTTGACGT
AACAATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 142>:

GNMCG44R gnm_142

TCTTTTAGTTTGAGATTAGTTGTGCAATCAAAGGAAAGGAAACTTCTTGGCGAGTAGAGA
GAAATGGTGATTGGTGAAGGTGAAACTCTTTTTTCTCAATTTTAAAATTCATTTTTGTTA
TTTTTAGCAGAAAGTCAAACATTTGACCGAAAAGGAAGAAGAAGGAGATAAGTCAAATCC
GGCTGCTGGGCTTATTGGGTCACACGATCATGTCGTTTCATTTGTTATGCTTGACGAACG
AAACCACTATATTTTGTTTAATATTACTTTCTTTTAAGTAAGGATAAAACATGTCATTGT
TTTACAAAAAAATTAACTGATAAACATTTCTGGTTCCCTGAATATACTTTTTTTTTTTGT
GAAAGGGTTTTCTTATATAACTTGAACATAAAAAGTATACAAAAAAAAACAAACAATAAC
CAGAAACTAGATTGGGGAAGAAGACCAACTAAGGTACTTAACAAAAGAAGATATCAAAAC
CTATATATCTTGATAATGATGGATTCTTTTTGGTTTGTCATGTTAATGATAGTTTTTAGT
GTAGAACAATAAGAAAATTGACTGAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 143>:

GNMCG46F gnm_143

CCGTGACTTCTTCTGCCGGGATCTTCACGCTCTCATCCCAGAATTTCACGCCCATAATCG
GGTTGACGATTTTGACGCTGGAGTTGAGGTATTCCAGATCCTTCGCTTCATGCGTTGCAC
CAAGCATGTTGGAGTCTGTGGAGTAGGCTTTTTCGACAGACATTTTGTAGTCGAAACCGC
AGCAATCATAAATTCAGACATCTCATGACGGCCGCCCAGTTCATCAATAAAGTCAGTATC
AAGCCACGGTTTGTAAATCTGCAGTTCAGCATTGGTCAGCAGACCATAACGATAGAAACG
TTCGATATCGTTTCCTTTGTAGGTGCTACCGTCACCCCAGATATTCACGCCATCTTCTTT
CATCGCAGCAACCAGCATGGTACCAGTCACGGCGCGGGCCAGCGGCGTCGTGTTGAAATA

GGTCAGGCCGCCGGTGGTGTTATGAAATGCGCCACACTGAATAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 144>:

gnm_144

CTAAACTAAAGTTATGGTCTAAAATCACACTCTCATTTACACAATACTTCTATTATTAAT
GTTTGGTTCTGACTACAATCAAACCTTTAGATCAAAATTGTTTCTTGACTTCTTGTTGAT
TCACCACCAAACTAGACTTATCTCTATACATGTTTTCAAAACCACTCAACAAATATAAGC
AAACAAAGATCTTCTTCACTTTGCACATAACCAGAATGAATTTCTACTAAAAGATGAGAT
CTGAGAAAGATCAAGGAAGGCTTTTTTACCAAGAACAGGAGCAGAGATGGCGACGGTAGG
CTTGAGAAGGAGAGCCGGACGAGCGGCGGAGACGtGGAAGCGGAGGCAGTAAAGCTAGCC
ATTTCTCTATTTGCTTCCCCTAACGACTGAGAGACTCTTCAATTGATTTTTTGTTTGTTC
TGTTTGTGTTCTACAGCAACAAGAACACTTTTAATTTCTTTGCTTGTGTTGGCTTTTGGA
TCAAACATAAATATGTGGTGGATAAAAAATCTGTTCGAACCAACACAAGCCATCTAACTT
GGATATGCTTCTATCCATACTCCACCAATCGACGCCCTCCACGTGTCATATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 145>:

GNMCG47F gnm_145

CGAAGCTCTGATGTCCTTCTCTTCTATCATCTCAATCATTGATTCCCTGAAATCTTTCTT
TGGATCAACGGACCGCTTCATCACAGCGAAGTCTCCTAGAACATCTTGTTTGCTCTCTGA
TCTTCTAGAAGTGCTTCTACGAGTACCTGAGAGTTGAATTCTAGGTGAATTCACTCTTTT
GAGGTTTATCCCAGCAGATGGTTTTCTTCCACTAGAAACTTGCCTTTGGTACTTCTTCTC
GGCTTTATATTCATTATCATCTTCATCTCTTGAAATTTTCACAGAAAGATGGCTTTTCTG
CGGTTTCTTAATCGGCATGCATGCAGTACAAGCTTTCTCTACCGAATCAATCACTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 146>:

GNMCG48R gnm_146

ATGGCATAGCTATTCATTACAGATCAAATTCACTTCACTTGTTACCCTGTCCACTACCAT
GCAAATTATCAAAGTAACCTTTAGGATCACTCTCAAAGTTATCTCTTGAAATGTAAGAAG
ATCTATTGCTCCCTGGTGCTACCATGTAGCCACCTCCGCCCCCACCACCACCGCTTTTCC
CTCCTCCACCGCAACCACCTTTCGCTCCTCCACCGCCGACGCAGCCTCTTCCTCCTCCAC
TGCCACCACCACCACCACCTTTTCCTCCTCCACCGCTACAGCTAACGCCTTTTCCTCCCA
TTCTTTGAAATAGTAGTTCTTAGTTTCACTCTCTAGAAATTTTTAAGATTTTGTGTGAAT
GAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 147>:

gnm_147

ACAACTCTTCACTATACTATCGCCATATCCATCAATCTAACATCCCTGAGACCAAAATTA
GAAAGCGAATTGAAGAAACCGCAGAAGTAGAAGAAGCTCACCGACGGAAGTGATGCTCTT
GAGCCGATTCGAAACGAAAACAATCGGAGCTAAAACAGATAACAATAGCAGCGAGAGGAT
CAGAATCCTCTGCCAACGACGAACTTGATTCATCAATGTGCGTAACTTCTCAGAGAACGC
TTCATATATTTTATCTCCGTTGCGCTTTAATCGTTCTCCACGAAGAAGAAGAAGCACATT
CCCAGAGGGAAGAACACAGATCTCGGAGATTCTCTGCTTCTTCAACAAGCAATTGAAGAA
AACGATGAGCAGATTAGGGTTTTCAGATTCTTCTGCAATAGGATTCGATAAATGCGAGAG

TCTGTTTCTACGATTTCATATCTGGAGATTCAGAGCTTCCTCGTGCATGTTTAGAGACTT
CTGCTCTTTTATTTTTTTTCGCTTAACTCAGAATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 148>:

gnm_148

TTAAAGAATGTCTTTTATTAGTATCATCATCATTCATCATCAACATCAACTTGAGACATC
ACATTTACACGCTTGTGCTCACATAATTAATAAATTTATTTTATGGTGAATTTTTAAAAT
TGGTTGACTAATTGAAATTGTATTTGGTGAAAAACTGAAAATCATAAGAACATAACTTTT
ATCTAAAATATTATATAATTAAGGGAATAGTACAAAAATAATTATAAAACAGAGAATCAG
TTGCTTCTGATTTCTGACAGATTTCTATCATCATTTCATGGAGATTTTACTCTTCATCGA
AATGATAAAATAACTGAAAAATGTAATTAGCGAATTATAAAACAGTAGCAAATGTAAACA
GTTTTAAAGAATACACAAAAAGGTTGACCAAATGGCAATTACAAAAGAAAAATACAGCTT
CTTTTCCTCGAAGTATGCTTTTTGATTGAAAATATTAAAACGTTTCTAAACGGACAAATC
AATTTAATAAATAAAAACAAAGTTTTCACAATTCAACTAAAAGTTTAACATATGTGAATC
TATCTAGGTTAAAGACTCAAAGTACACGTTATAATGrAGTTCAATAGTTTCATTTCGATG
CTTCTTTGAATTTGGTAAAGTGTGAACCTTATCTTAAGTTTTTAGGTAGAAATAATTTAG
TATAGTAGCACTTTATGTTAAATTAAGGTGATACAGATACACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 149>:

GNMCG53R gnm_149

GAAAATATCAAGATGCTGGCGTAACAGCATTTCTGGTGGAGAAACGTGGTCGAAACTCAT
ATAGCGCACGGATTCAACGGTCGCTTTCAGGTTCTCAATGGTATCCCACGCCAGTTGACA
GTCGGCAATCTGCGTCAGGAGTTGATGGAAGTTGTCATCAAGTTCAAAAAAATCATCCAG
TTGCTTGCGCTCAATGGCAATGCGTTGCTGGTGAAGATTTTGTTCCAGTTGATAGCACTG
GCTTTCGGTAATCATGCTCGCCGCCCGACGCGCCACCGCGCACTCAATGGCCTGACGGAT
AAAACTGCCGTTGCGCACCTGGGCCATGGAAATTTTGTTGACGTAGCTGCCACGTTGCGG
ACGAATTTGAATCAGGCCGTTTTCCGCCAGTTTAATAAAGGCTTCACGAACCGGCTGGCG
TGACACATTGAAACGAACAGAAACTTCTTTTTCCGACAACGGTGTGCCTGGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 150>:

GNMCG56F gnm_150

CCGTGGACAGATCCTGACTCTCACGACATCCGAATTTTCAGAACAAGGTAAAAATGATCT
TGGATAGAAGCTTGAATCACGGCAAACAGTTTTATCCCTCACACACAAACAAAAATATTT
AATTGTTAAAGCACATATTTTCACACATATTATAATACAATTAGGTCAAGAATTTAATTT
TTCTATTTGGAACTAGATCAATATATAAACAGAAGAAGAAAAATGTTACGTGCCTGTCGC
CAACAAGTCTGTACATTCTAAAGATGAGATCTTCTTCTTGTTCGGTCATATTGATAAACT
CCCATTTCATACTACTCACTTCTGCATTTTAGTTAGTATATAAATTCAAAATATCAGTGA
AAACGTACATCACAAAACAATTTAATGTTACAGGTCAAATGAATGAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 151>:

gnm_151

CAAGACTTCTTTCTTCTCTGCGTTGAGCTTGTTTATGTAGGTATCAGCGTCTCTCTGAGC
CAACTCGAGCTCATGTTGTAAGCTCTTCAGCTTCTCCTCAGCGGCTTTGCCGATCTCGAG

CTCATTTTTCAGAGAATAAGTCTCTTTCTCAAAGTGCTGAAGCTTCTCTTTCGCGATACT
CAGCTCTTCCTCCAAGGCTAGCACTTTTGTAGCTACTGCATCTTCTTTAGTGTCCTCTTT
ATCCAAATCAACACTCTTTTGTTCAGCACCAAGATGATCCTCTGTGTCAAAAGACATGAA
GCTCTGAAGCTGATTCTTCAGATTAGCAATCTCGTCTTCGTGCATTCGCATCTTCTCATT
AGCTTCTTTAAGCTCTCCCTCATATGTAGTAATTTTGTGAAGGAGATCAACATTGTTGTC
ACCATCAACACTTTCCTGCTGGAGAAGGAGCTTCTGTTTCGTCTCTTGAAGCTCAAGCTC
AAGTTCAGCCATTCTACGGATCAATGCCTCGTCACCGTCTTCATCATTGGCAGAGGAATG
ATCAGAATCAGAACCAGAATCTGTCAAAGACGATGAATCTTCCTCTTCTTTATGGCTAGA
TTGACGGCGACTCAACTTCTCTTTGGTAGGAGATGATATCTCAAGAGAGCTCTGTGACTG
GATCTCAGATGTATGGTTCTTCTGAAGTTCACCACTAGCTTGATCATAACGCTCAGCCAA
TGCGCGATACATGCGGTAGAATTCCTCGACAAGCTGGATTAACTCGGGACGTTTCTGAAA
ATACATCTGAGCTTTCTTTGCAAAAGAGTCTGCGTCTTCTTCAATCAGTTTTAACATGTG
GTTCACGCGATCATCCATCTCTGAGAAACCAAAACAAGAACAAGAGAGAAAACATCAGAT
TGTGTTCTTTTTGAGTAAGTGGAGAGCTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 152>:

GNMCG60F gnm_152

TCCACCAGCTCAAAGACGTGAGTAAACACTCTAAACCCAAAAACAAAGCTTCTTCTTCTT
CCTCAAACACTTGTAGCAAGAAGAAACCTTCCTCAGATTCTCTTCCTCAACACTCTTATT
TCTCCAACAGCTTAGTAGCTAACAATCCTCCTCACCATAACTCACCAAGAAACTCTCTTC
ACACAAAAAAGATGAGTAAAAGAAAGACACTTTACAAGCCATCCCTTAAACCTTTGACTC
CTCCTCCTCTTCTTGTATCTGCAAGTTTCAACAAGAGCAAGATCAACGATCAAGATTCGT
CTTACAGCTTGTTCCCGGCTATTGAAACCTCCCCTGAGTCTTTTGTGTATAGTTTCTACG
AAGAGGATGATGATGATGAGTTCGTTGAATTTTCCAACTTCAAGATCAACACAAAGAACA
AAGCTTTCACCAAGCAGAAGGTCAAAGTGATTGATTCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 153>:

GNMCG62F gnm_153

CCAATAGGTCCAAGTAATTTGCGGAAAAGTTAGTGGGCTTTAAATATAAAACATGACTGA
AATTGGGCCGTATTCGACATTTAGTTGTATTATTCTCTAAATATTCAGAACTCTCAATAA
AATCACTCTCTGGCGACTCAACGTTGGCCAGAGAATCGGAGAGGGACATTAACTGCTGGC
AGACTGGCAGAGTGGCAGTAACCATACGCCGAAAGAGATATTCTCAACTTGTCCCGTAAA
TCAACATCTTTACGAGACCTTCATGCACCTTCGGTTCTTTCATTGTTTCTGGGTGGTTGG
TGTGGCAAATAGCTAGCTGTACGTTTGAGGTTGCCAAGAACTCCAAAACTCAGACAGTAC
GTGAGTCTCAAAAAGTTTTTCCTCAGCTAGTTGGAGATTTTTAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 154>:

GNMCG63F gnm_154

CATATTCAGATATTTTATCCAGTTGTATCAAGAGCAAGTCCACTGGTCCAGTAGTCCTCA
TTACGGTAGCTTGGGACCTCCTTTTCTATATCTCTCTCTTTACTCTTCGTCACAAGTTTT
CTATATAGTTTTCTCTACCTCACATCTACTTTTTTTTCATTGCATTCTCCAACTCCAAAA
TCATCAGTTGTAAATAATTTGTCCCCTTCCACTTCCAAATACCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 155>:

GNMCG64R gnm_155

CCAAACACATCAATCCTTCTCAGTCCAACATGGTCCATTGCTCTGCTTCTAATATACTGC
AAAAGCCATCAAGACCTGCTATTTCAACTCCTCCTGTGGCTAGTAAATCCGCTCAGGCGC
GGATTGGAAGGCCTCCTGTCGAAGGGCGAGGGAGAGGCCACTTGCTTCCGCGGTATTGGC
CAAAATATACGGATAAAGAGGTTCAGCAGATCTCTGGAAAGTATCCTTTATTTGCTTCTA
GTACTTTTGCCAAATATTTTATTCTGGACAGACTTCTGGTGACTCATTGTTTATCTTAAC
AAATTCTAGTTTGAATTTGAACATTGTACCTCTCTTTGAGAAAACTCTTAGTGCCAGTGA
TGCTGGTCGCATTGGTCGTCTAGTTCTTCCAAAAGCCTGTGCAGAGGTAAATTTCCCATT
CCTTAGGTGATGTCTTTTCTTGTCCTTGAAATATTTTGTAGAGTTAGTACTGATGTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 156>:

GNMCG64F gnm_156

CCTTTTTGTCACATAATTAATTTTATATTTATAAAGAGTATATAAATAACATATGATTTG
GATACTATTGGTGGATTATTTTGAGGATTTTCAATTGTACACCTCTAGAAATACAAATAA
AATAAAAATACATTTTGGTCGTAGATTGTACAAGCATTGATTTTTCGATACAAATTTTGT
CATCAATATCTTCAAGATTTTCCGCGGACAGTCCCGAGACATGCGTTTAACATGTGAGTG
ACACATCTTAACATGCGTTTCAAGATTCTAGCTCTGGATCTTCACACTGAACAGTTTCGT
GATGTCCCAACACCGCCCACACCCCGGGAACCGAGCGAGCTAGTTAACCTTGAAGATCGT
CTAGCCTTGGTTAAAACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 157>:

gnm_157

ACCACAGTAGAAGCCTAAAGCATTTGTCCAGATATCAAATTCAGGAGTATAAAGGAACTG
AACCACAACATGTTGAAAGAAAGAGAATAAAGGTGAAACATTTACCTTTGATGAGGAGAT
TGTAGAGTTAACAACAACCGAAGAGGCCAAAACATTGTCAGAGAAGACTACGTAATGGTA
GAGATCAGGATCATTATAACTTTGTTGCAAAAGCTGCCTTTTTTCGTGATCCAGGGTAAA
ATATTCTGTTGTCAACCGCATTGAGAGACAATGAAGCCCTTTTGGGGTAGTCCTTGCTGC
AAGCTGCATTAAATATGCTGCTTGTTTCTTCTGCGCCCGAGCTTGTTCTTCGGTTTTATA
AGTCATGGCTTGGAGTTTGGTAGCAATGGCAGGGCAGTTGTGAAAGGCACGGCTGACCTT
GTATAACGCAACTTCCATGGCCTTCAATCTGTTAGGAGAGCTGAAAAGAAACAAAACATT
TATGTATGACTCGTCTAAATTAACACAATATTCATTAAGATTTAGCTTCATAAGTAAAGG
CCAAAACTTTTTACAGGATGGAACAGGACTCCCTTTGAATCAATCAGCTGTGCTCACCTC
TTTGGCAAATATTTATCGCTTGGTAGTATCACCAGTAGCCCGTTCCAGCTCTTTCGTTCG
AACTCTCAACTCGCTTACGATTTGGGAGTTATTCCCAGGTAGGGCCAAATTCAGATAGGC
TTTCGCTTGGATAATTTTGTCTCTGATCTCGCTTACCCTGTCATCTGTTGCTCTGTCAAG
TTGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 158>:

GNMCG68R gnm_158

GGGACAATTGTGACTATCCCACCACCATGAATGTGATTTCTTAGTCATAGACCTCTTAAA
CTGCTTCTTGCTCTGAGCCTGAGAGAACATCAGACAAAGTGACTAAATGTTAGGACCAAG
AGACTAAACACAAGGATCTAATGAACTTATATAGTGAAGATCACGAAGGTTTCATACCGT
AGACGAAGCCATGACCGTGGAGTGCAGAGAAAAAAACCCTACAAGAAAAAGATCAAGAAC
TTAAGTCATTTGACAAACAAAAGGCAATTTGATGTTCAAAGACTATGACTTTCTCGGATG
TGCTTGAGTTGAACAAAACTAAAGAAACAAATTAGATGAGATAAGAGGAGAAAAGAGGAC

ACGTGAAGATTCAACAACCCATTTGTACTTTGTCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 159>:

gnm_159

CCCAAAACAATGAGCACCACTAATTATTATTGCAATCGTAGAACGAACCATTTAAAGACA
TTTTACACAAAAACATCTCACAAAAGCAAAACAAGGGAATATTTCAACAGATTTCACAAA
CATTTATAAAGTCATCTTCATCCTTTTTTTTGTGCAGAAAGTTTAACAGTTCCTTGGTTT
CATAACGATTATGGAGTGGTTAAGGATGTGCAAGCTGAATTGTCCACCTTTCTCACTAGT
ATCCACTTTAGACTGTCCTGGAGGAGGAAGAAGCTCGAAGTTCTGGACCATCCTACCAAT
GGTGATCCCCAAAATAGGCAATGCCAATATAATCCCGGGACAGCTTCGACGTCCAACACC
AAATGGCACATACCTGAAGTCATTACCGTTAGCTTCCACGTGCGATTCTTCTTCAAAGAA
CCTCTCTGGTCTAAACTCTTCAGGCTTCTTCCAGCTGTTGGGGTTGTTTGCTAGCCACCA
AGCATTAACAAGGATTTTGCTTTCTGCTGGGATAwCGTAGCCAGCGAGCTTCGCAtCAgG
AGGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 160>:

GNMCG72R gnm_160

CATACAGAAGGAAAGGACGAATAATTGTTTTGGAATTTGCATGCATTTGAATTCGAGTAC
TCATAATCTTCTAAGCGAAAACTTGCGAAAACTTTATCACCTATAAAACATTGAAAATAT
TGAAACCAAATGGGTGGTCTAATAGTTTTGAAAACTAATGTGTGGGTCAAAGTCACTAGT
TTAATACTTGAGAGGAATAATTTATGCTCTAAATAATCAACCACAAAATTTTCGATCTTT
CACTCACTCACAGAAAGGAAAACAATTCATTGCTAAAGCGTCATGACTCACGTTGCTTGA
ATCCTTAAATTTTTTTTGTTGTTGTATGGAAACATCCAAAATCTAACATGGTTTATGAAT
TAAGTCGCAACTGATTCATTTTATTATGTTTTCAGTACTATAACGTGTTACATTTAAGTG
AAGGACATCACATATATAAGTATACACAACAAGTTATCTAATCCAACTAGTCCAAGAAGT
TTTTATTTAATCAACAAAAGAAGCAAGGCTTAACATCGAGTTCCTCGACTAAGTCTGTAA
AATCCGCTCAAATCGGAAGTAGACACAATCACACAATGGTTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 161>:

GNMCG73R gnm_161

TAATTCTTCTTCCCAAAGTTTCTTGGTTCCATACTTCCATTAGTTTGTCAAACGATTTTC
AGGTCAAAGGCCTAATGATCCATTTTATTTCATTTGCAGTCGAAAAATCCAGTTTTCATT
AGTCATCCTTCTCCTTGGTGTTGGAATTGCAACCGTAACAGATCTCCAGCTTAATATGCT
GGGTTCTGTCTTGTCGCTACTGGCTGTTATCACAACTTGTGTTGCCCAAATTGTATCCTA
TGCTTATATTCTCTTTCCCCTTTCCATATGTCTTCTATTAGCCAGTGGTTCAGCTAAATA
GTAGTCTTTGTTGGAGTCGTTGCTGTTATCTTAACCAGTTATATACAGATGACCAATACG
ATCCAGAAGAAATATAAGGTTTCATCCACCCAACTTCTGTTATCAGTCTTGCCCATATCA
AGCAATCACACTTTTTGTTACTGGCCCATTTTTAGATGGTCTCTTAACCAACCAGAACGT
GTTTGCTTTCAAATACACGTCTCAAGTTGTGGTGAGAATGAAGCAATATATGTGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 162>:

GNMCG73F gnm_162

GATATATTTCTCTGGTTAAGAATTTGAATGGTTGACAAAGAAACGGTCACTCTATATACT

TAGAAAATATAGTCATACATAGACACCATCGGTCTAGTTATAATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 163>:

GNMCG78R gnm_163

ATATTGCTTCCTCTTGCAATCATAATGTAATACATTGCTAAATGTAGAAAAATATCTACA
AACAAACACCACAGCGATTCCAATACTAGATATTGGTGACTTCTTGAGTATCATAACTTG
TTTCCCATATATCAATTTAACATTTTAGCATTCAAAATTAGTTATGAAGTTTCAATTATT
CTTGCTGGAGATAAATTTTATTTACTAGGCATAAATCAATCACAACGTGATATGTGCATG
CTTAGTTAATAGAGTATCTATCGAAAATTCGCTTTTTTTAATTAAAGTAACGTATATCAT
CATCATTATTAAGCGACAAACGAATTTAGACATTTTACCATCATTTACAAGATAATTGGT
GATAGACGAATCATACGTTACTTTATAGATAGTATAAAATAAAATTACGCCAACTCGTCT
ATTGCGCTTGTTTTAGTAACATATGTTAGATGAATTGGCCACGTTGAATCTAATTCATGT
GTGCTTTTTGTAGAAAATCGACAAGTAGATAATTTATTCGTCACAATGACCCAAGATTCA
AACCTAATTGAAATAAAACCCTAGTAGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 164>:

GNMCG80F gnm_164

TATAAGTACTCAAATATAAACTCGAGACGACAAAAAAAGTTATGCACAAAGAGTATTATT
GATTGTATATGTTTTAAAGTTTTTCATTGTCTACCATGTACTATATGGTGATTCCTTTTT
TGTATTTAATTATAATGTATGTACTACATCTTCTTTATTGGTACATTGATTATTTCTCAA
AAGCAAAGTTCAAAATTTTTAGATGCACGTTCAATAAAGTTACATTAGTATTTTGAATTA
AGGTTGTTTAAAGGGTTTTCAAAACAAAAAAAAAAAACACGTATGCCGAATTTCGTTGGTC
TATCATATGGAGAAAAGATCTTCAATTCGGATAGACCAACCCGCCAATAGTTTTGAACAT
TTTGCAAAACATTGCCGATTGTTTTGGACTTTGGGTTTGATAAAGGAAATTCCAATTACG
ACAAAAAAAAAAAAAAGGAAATTCCAATTACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 165>:

GNMCG82F gnm_165

CCCAGGACATTCATTTCATCAATGTTTAGGATTTGGATTGAAGCTCTGCCACTTGGGTTT
AGTAAAAACCACATTGAGATTGCTGGGTAATTGAGTGAATCTGTCACCACATGGAATACT
ATTTTATCCGGTTCCTGCAAGCAGTAATATCATTTGTTAAAAGACATGTGGCTTCAGCAG
AGATTCGGAAAAGAGCATTAAAAACACAAGTTTGGATCGGGAATCTTGCATTAACAAGTT
TAAGATGCTTGCAACATGATTTAAAATGATACCTGAGTTTTGAATTAACAAGTGTAAGAT
GCTTGCAATATGGGGCATAAGTTTTGAATCATGAAAACATAAAACAATGCAAGGTTTCTC
AACTGTAATTTAAAAAAAGATAAAGTTATTCACTGAACAAAGAGCACACAAAATGTAACT
TCCTTTTCCTAGTTTCATAACTAGACAATATCCTATATATGGTACTAACCACAGTnGn

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 166>:

GNMCG85F gnm_166

CCGCAAACCTTCTGGTCCAGAAAATGGTAAGTATATGCTTGTTATGACTTCCAGCAGTCA
TAATTGGAGTCAGTTTATGAACCATTTATTTGCTTTATCGCTCAGAACCATGACATGTAA
TTTCACTTTGCATTTTTCTTGTTTGTGTCACTTGTTAACGGAAAAAGGAATGCAAGATCT
GGATGCTGATTTTTACAGCCTTAAGGACAACATGTCCGGAGTAGGTAAGGTCGTCAAACT

CATTATCTATGAATATGGTCCTCTTCTGCTCATGTTGTATGTGATAATGCAGGAAGTTCA
TTTAACCATATAGCAGAACCTACTTCCTCTAAGAGGCAAGCCAGTTTTCTTTGTTTTTGC
TTTCATATAATGCCACTGCACAAGTTTTCTTTCTCAGCATGTATATCATCTTGGTTATCT
TGCTAACAGAATTGCACATTTTCATAGAAATTTTGATGCTTTACTTTCTTACAGGACTTT
GTTTAGTATCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 167>:

GNMCG87R gnm_167

CTCGGAATTCCATTAGTTCATTCCACGGACAAAAACAGAGAAAGGAAACGACAGAGGCCA
AAAAGCTCGCTTTCAGCACCTGTCGTTTCCTTTCTTTTCAGAGGGTATTTTAAATAAAAA
CATTAAGTTATGACGAAGAAGAACGGAAACGCCTTAAACCGGAAAATTTTCATAAATAGC
GAAAACCCGCGAGGTCGCCGCCCCGTAACCTGTCGGATCACCGGAAAGGACCCGTAAAGT
GATAATGATTATCATCTACATATCACAACGTGCGTGGAGGCCATCAAACCACGTCAAATA
ATCAATTATGACGCAGTATCGTATTAATTGATCTGCATCAACTTAACGTAAAAACAACTT
CAGACAATACAAATCAGCGACACTGAATACGGGGCAACCTCATGTCCGAGCTCGCGAGCT
CGTCGACAGCGACACACTTGCATCGGATGCAGCCCGGTTAACGTGCCGGCACGCCTGGGT
AACCAGTTATTTTGTCCACATAACCGAGCGCAAAATGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 168>:

GNMCG88R gnm_168

TTCAGTAAACTTCAGCACGTTTCATCGTCATTGGAAAGACATCTCCTGTCACTTATCAGG
TTCTAGGACATCTAAAAACATGCTTAGTGTTAGCATTTGGGTATCTTTTGCTGAAAGACG
CATTCAGCTGGCGCAACATTCTTGGTATTCTTGTCGCCGTGATTGGAATGGTGCTTTATT
CCTATTACTGCACACTCGAAACCCAACAGAAGGCCACAGAAACATCAACTCAATTGCCTC
AGGTAAATAGTTTCACCTTCCCTTTTGGCACAATGTGACTCAACTTCATTTCATTATATG
CGTAACGAGAAAACAAGAGTTGAGAATTGATGTTGTGAATGTGTCTTGTCTCAGATGGAT
GAAAACGAGAAAGATCCGCTAGTTAGTGCGGAAAACGGGAGCGGATTGATATCAGACAAT
GGAGTGCAAAAGCAGGATCCTGTATGGAATTCAAACAAAGATTTTCAAGCGTAGAGCTGG
AGCTCGATATCTGAAATCTGTTGTAGTATCAGATTTCATAGGTTTCCGTTTGTCAACTTT
GATATCTCTCTTAGAGAGAATCTACAGCTTCCCTTTCAAAGGAAGGGGGGAGAGGATTAG
AGGAGGAACAGCTTTTTGTTGATCCATTTCATATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 169>:

GNMCG90F gnm_169

CCTGAATGTGCATGCAGGGGTCCACTTCCAATAGAGAACATCCTTGGAAGATCTGTGTTC
CGGTACTGGCCACCGAGCAAAGTATCAGACACCATATACCACGACCAAGCTATCACAAGG
GGACCTGTTGCAGTTTCATGACAAAAGAAAGTTGGATTTTTCTTAGGATTAAAGCACAAG
ATTGTGCAAAACCAGTCTGGTCAGAATTGGGTAGACTTGGAATTGAAACTCAAAACCGTT
ATGATATCTGCAGATACATACTGTATCATCGTTATGGATCGCATCTGGTTCTTAGCTGAT
GGTCGGGAAGCCGGAGATGTTACGTGTACAAAAGGAATGGAAGATGCAAAGAAAAGGAAA
CGATTTACTGTGATTGTTATGTGTGAAAACCCTGGAnCAGATACTGTAGTAAAGCCATAA
AGGCAACTGTTAAACAAAAGTGTGATTTTTTGTTGTTATGAGTTTGTACTATAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 170>:

GNMCG91R gnm_170

GGAAGCCAGTAAGGATATACGGCAGGCATTGAAGAGTTTCGCGGGGAAGGAAGTGGTTTT
TTATCGCCCTGAAGAGGATGCCGGCGATGAAAAAGGCTATGAATCTTTTCCTTGGTTTAT
CAAACGTGCGCACAGTCCATCCAGAGGGCTTTACAGTGTACATATCAACCCATATCTCAT
TCCCTTCTTTATCGGGTTACAGAACCGGTTTACGCAGTTTCGGCTTAGTGAAACAAAAGA
AATCACCAATCCGTATGCCATGCGTTTATACGAATCCCTGTGTCAGTATCGTAAGCCGGA
TGGCTCAGGCATCGTCTCTCTGAAAATCGACTGGATCATAGAGCGTTACCAGCTGCCTCA
AAGTTACCAGCGTATGCCTGACTTCCGCCGCCGCTTCCTGCAGGTCTGTGTTAATGAGAT
CAACAGCAGAACTCCAATGCGCCTCTCATACATTGAGAAAAAGAAAGGCCGCCAGACGAC
TCATATCGTATTTTCCTTCCGCGATATCACTTCCATGACGACAGGATAGTCTGAGGGTTA
TCTGTCACAGATTTGAGGGTGGTTCGTCACATTTGTTCTGACCTACTGAGGGTAATTTGT
CACAGTTTTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 171>:

GNMCG93R gnm_171

TACATAATGCTGAAAAGTTGTACATGTATCAAATTGAAAAATTGATGATGCAAAGTTATA
AAGCAAAAACAAAGTAATGCACACTTACCTAATGTCGAAATCTAGGTTCCTTTAACTTTG
ATACGAAATCAAATTTTTTTCAAGAATACATACTTACCTAAAGTAAAAGTAGACGGTTCT
TTTGAAATTAGATTTTTCCGAAGAAACCGAAAGTATCTTTGTTTAGCCATTAAATCATGT
AGTAACATATCTCTATCCTATCGGTAATGGATGAGGACCAAGAGCGAAGTACCATGTACA
AAATTAGTTCAATAAACGTAAAACTTCAATCAATTAATAATCGATGAATTATTATTTTTT
ATATATTAATAATTTTTTATGACATAAATGATATAAATCAATAAAATAATTTTAAGAAGT
CATTTTTGAAAATTCTATGTAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 172>:

GNMCG93F gnm_172

TTATTAATTCTTTTTTTGCAGTCTTCATATGCAAATCCGGACCAGTCCCTCTCTAATCGA
AGAAACAAGGATGTTGATGAACCATGGGATTCCAAATTACATCTTTGGAAACCTCTAAAT
TTTCTTGTGGATGTGGCAAACGGAACAAAGGACCCAAAATCTGAGCTTGGAAACGCATCC
CACAATGATGTTCAGGGGAGTAAAACCAAAACAAAGGATCATAAAAGAAAGTGTAAACTC
GAGGAAGAGATCAGCAATAACGGTGATCCTACAACATCAGAAACTGCTACACTTAAACGA
ACGCGTCGGACTCGTCGCAAAAGGTCATCTACTTTTGGTGATTCTAGAATTCCACTGTTA
CCAGGTGCAGCAAGCCTAAAACAGGAGAGGAGAAACGGTCATGTTTGGTTCTCACTTGTA
GCGTCAAGTAATCAGTGAGATTCCTGTTCTGTATCTGAGACTCTGAGTACTTCTGATATT
CAATATTTTCTGTGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 173>:

GNMCG94R gnm_173

GTCAACCGCATTGAGAGACAATGAAGCCCTTTTGGGGTAGTCTCTGATGCAACTTGTGCC
ACATATGGAAGGTTCTTCCGTAATTTTTGTGGCATAGTGTGAAGTTAATCAAGAAAAGTC
ATTTCGATTCAGAAGCAGTTATGACCTGAATATGTTGGCTAGTTTAATACTTTCGCTGAC
ACCAACAATTTTTTGTTAGAACCTGAAACAAATCTCTTTAGTACTACACTCTCTCTTACT
AGTTGGTCACCAGTAAGAGCTTTGTTGGTGGCGAACTTATTCATTTTCTAAAGAACCACT
CTTATGTATTTATTTTAGGCCTGACCACATTTTGCAAGACTTGAGAGCCAAATTATTTCC
TCTAAAACGTAAAAAGGAGAGAGCGCCTGAAGTTGTGTCCTCCATCTCATTACCTGCAAA

GAGGAAGGAGAGGTCTATCTCGTCTTTGGTGGTAAGCACACCCAAGGTTTCAGCACAAGC
TGGTACAACAGGAAAAAGAACAAAAGCTGCTACGAGAAAAGATGTAAGAGGTAGTGGTTC
ATTCACTAAGAGAACAGTGAAGAAGGAAGAAGAATTTGGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 174>:

gnm_174

GCCCATTACGGCAGCAAAATTGCTTTGCGGAATGCTGAAATTGATGTTCTTCAGAATCGG
GCGGTCGCCATACGCGAAGGCGACGTCTTTCATTTCGATAAAGGGGGGCAATTGTGGTGG
GCAAACAAAGCGATGGGCGTTACACCGAAAAACGAGCGCGTGATTTCCAACGTCGTCATG
ATGGGCATGGGCGAGCCGATGGCGAACTTCGACAATGTCGTTACCGCCTTAAGCATCATG
CTGGACGACCACGGCTACGGTTTGAGCCGCCGCCGCGTAACCGTTTCCACTTCGGGTATG
GTTCCCCAAATGGACAGGTTGCGCGATGTCATGCCGGTGGCTTTGGCGGTTTCCCTCCAC
GCTTCCAATGACGAAGTCCGCAACCAAATCGTACCGTTGAACAAAAAATATCCCTTGAAA
GAATTGATGGCCGCATGCCAACGCTATCTGGTCAAAGCACCCAGGGATTTCATCACTTTC
GAATACGTCATGTTGGACGGAATAAACGATAAGGCGCAACATGCGCGCGAACTGATCGAA
CTGGTCACAGATGTTCCCTGCAAGTTCAATCTGATTCCGTTCAATCCCTTCCCAAACTCC
GGATACGAACGCTCCAGCAATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 175>:

GNMCH55F gnm_175

TATCCATTTAATGTTCACTTTTGAAATATGTTTTTGCTGGTTAAGGAATTTTAGGTGAAT
ACATGTTCAGTATTTTAAATGTGTTTCTTCATTGTATTCTGGCTTGTGTAGTCTCTGGTG
AGACGCCTACTATATTTGGTATCCTTGCTCTTTTTTACTTATTGTATCTTTCTTATCTTG
CTGTTTTTAAGATTTTCTTTTCTTTTTTCTTAGACAGAGTTTCACTCCGGTCTCCCAGGC
TGGAGTGCAAATGGCATGACCCTTTGGCTCACTGGCTCACGGCCACTTCTGCTATTCTGC
CGCCTCAGCCTCCAGGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 176>:

GNMCJ01F gnm_176

CGTCATTATGGATCTTGAATCCTCTTCTCGGCAGGTTGCAATTAGCGAGTGGGTAGTATC
ACCAACAGCGCGAAATCCGCGTCTGATAATGGATATGTTCTGATATAACGTGTTAGTAGG
CACACGCATACCTTCTTCTTCCCAGACTCTGGTGAAAAAATCTTGTTGTGCAACCACATC
AGGAAAAGCTTCAAGTAGAAGTGATAAACATCGACTGGCTGGCGTTGTCAAGACGACGTT
AAGATCGGCGTTATGTACCGATATTAATTTTCGGTGCTCAGGCCAGAACTCGATATTATC
GTTAATAATCCAGTACATACGTCAATAAACACTAAATCAATCGAAATGGAGATCACATAG
TTTGCTAAGTATATTGGTATTTACGGCATAAATATATATTAATTTTATATTTATCATGAT
GATTGAAATGAGGCTTTAATGTTGCAACGTAAAACTTTACGTAAATTAACATGGTTAACA
TTTATGCCACTATTGTTTGTAAATTCATATTTCGTAATGCTTCTGAATTTTTCGTGTGAT
GGTTTTAAATACTATGGTGTTTACTCTTGAGGGGACGGCCTATTTATAAAATACGGACAT
TTCAATAAATGCCCGTATAAACAGAGTATGATTCTGGCTGGTCGTTGAGTATCAATGTTG
GACCGAATGTGAACGAGTAAATAAATTCGGGTATTTTACCACCCATTCTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 177>:

GNMCJ02R gnm_177

GTACCCCATTCTCAATAGCGTTGCCGGGCGTCACGATATGGACAGCCTCGCGGAACGATT
GGTTGAAGCACAAAACCATCACTTTTGAAGAGATTGCTGGTAAAGGCAAAAATCAACTGA
CCTTTAACCAGATTGCCCTCGAAGAAGCCGGACGTTACGCCGCCGAAGATGCAGATGTCA
CCTTGCAGTTGCATCTGAAAATGTGGCCGGATCTGCAAAAACACAAAGGGCCGTTGAACG
TCTTCGAGAATATCGAAATGCCGCTGGTGCCGGTGCTTTCACGCATTGAACGTAACGGTG
TGAAGATCGATCCGAAAGTGCTGCACAATCATTCTGAAGAGCTCACCCTTCGTCTGGCTG
AGCTGGAAAAGAAAGCGCATGAAATTGCAGGTGAGGAATTTAACCTTTCTTCCACCAAGC
AGTTACAAACCATTCTCTTTGAAAAACAGGGCATTAAACCGCTGAAGAAAACGCCGGGTG
GCGCGCCGTCAACGTCGGAAGAGGTACTGGAAGAACTGGCGCTGGACTATCCGTTGCCAA
AAGTGATTCTGGAGTATCGTGGTCTGGCGACGTGAAATCGACCTACAGCGACAAGCTGCC
GCTGATGATCAACCCGAAAACCGGGCGTGTGCATACCTCTTATCACCAGGCAGTAACTGC
AACGGGACGTTTATCGTCAACCGATCCTAACCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 178>:

GNMCJ02F gnm_178

CCTGACTGACGGAGACGACCGCTTTGACTAATTTGAATTATCAACAGACGCATTTTGTGA
TGAGTGCGCCTGATATTCGCCACCTACCTTCCGATACCGGAATTGAAGTGGCTTTTGCAG
GCCGTTCCAACGCAGGTAAATCCAGCGCGCTGAACACGCTGACTAACCAGAAAAGCCTGG
CTCGTACCTCAAAAACCCCAGGGCGCACCCAGCTTATCAACCTGTTTGAAGTGGCTGACG
GCAAGCGTCTGGTTGACTTGCCTGGGTACGGTTATGCGGAAGTCCCGGAAGAGATGAAGC
GCAAATGGCAGCGTGCGCTCGGCGAATACCTCGAAAAACGTCAGAGCCTGCAAGGTCTGG
TGGTGCTAATGGATATTCGCCATCCGCTGAAAGATTTGGATCAGCAGATGATTGAGTGGG
CGGTAGACAGCAATATCGCCGTTCTGGTGCTGCTGACCAAAGCGGACAAACTGGCAAGCG
GCGCACGTAAAGCGCAATTGAATATGGTGCGTGAAGCTGTACTGGCGTTTAACGGTGATG
TGCAGGTTGAAACGTTTTCTTCGTTGAAGAAACAAGGCGTGGACAAGCTGCGGCAGAAAC
TGGATACCTGGTTTAGCGAGATGCAGCCTGTAGAAGAAACGCAGGACGGCGAATAATTTT
CTTGCCTTAATGCTTGTGCCGGATGTGGCGTATCCGGCCCGTAAATTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 179>:

GNMCJ03R gnm_179

CCCTCCCTAGTAGCTAGGACTACAGGCACACATCACCACATCAGGCTAATCTTTTAATTT
TTTTGTATGGGGGGGGGGGTCTCACTACATTGCCCAGGCTGGCCTTGAACTCCTGGCCTC
AAGCAATCCTCCTTCCTCAGCCTTCCAAAATGCTAGGATTAGAGGTGTAAGCGACCACAC
CTGGCCAGCAAGGTTGGGATATTTTTAACAGCCAAAGTATTTCCAGTTCCCTCAAGGGCC
TTCATGAAAAAACAATTTAAGTCCAAACAGAATTAATTTTAACTCACTGTAGTTTAATAA
TGAAGCGCACCGTATAAGAATTTTAGAAGGAAAGTCTGTGCCTAATTAAACTCTGGCAAT
AAAGACAGAGAAGTCTGAAGGTAGAGAGGCTTTCTCATGGTTACCCAGTGTGAGACTCTG
ATTCCTGGAGACCACAATTATGCACCAGGCAGAGGGAATTCTACTATGCATTTGAGACTT
TGATTATGATGTTGTATAATGGACATTATGCACAAATCTCAGAGCTGGATTCCAGGAAAA
GATTGATTGGCATTCCCCATCCTCCAGCCCCATCTGCTTTCCGTATGTATTCCCCACACC
GAGCTCATTCCCGTCTCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 180>:

gnm_180

AAAGCTTTACTGGGACACAGGCATGCTCATTCATCTATTGTCTACAGCTGTCTTCAAGCT
GCAGCGTCAGAGCTGAATAGTTGAGGCAGAGATGGTAGCTTACAAAGCCTAAAATATTTA
CCTGGTCCTTTACAGAAAACATTTGCCAAGCGCTCTTCTAGTCTAAAGTACCTGTAATAT
CCTTTCTGCCTGGGTGCAGTGGTTTATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGCC
AGGTGGATCTGTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGAGGAATCACAT
CTCTACTAAAAATACAAAAATCAGCTGGACATGGTGGCAGGCACCTATACTCTCAGCTAT
TCAGGAGCTGAGAGAATCACTTGAACTCTGGAGGCAGAGGTTGCAGTGAGCCGAGATTGT
GCCACTGCACTCCAGCCTGGGTGACAGAGTAAGACTCCGTCTCAACAAACTATTTTATTT
TCTTCATAGCCGCTACCAGTATCTAAATTTCTAAGTTCTCTCTCTCTCTTTATTTACTTA
CATGTTTAAAAAAATTGTCTCCACCAACACTCCCACAATAAAACAATAGGGCCGTAAGAG
CAGAGACTTTGTTTTGTTTCCTTCTCTATCTTCAGCTATTGATACATAATGGGCTTTTAA
AAAGTTTATTCTGTTTACATTACTGACATTAAAGGTTTAACAAATTGAAGCTATCTGAGA
AATTGTTTGTATTGCTAAGCTATATAGCCATTCTTTTCTATCGCTGTTTTGTTTGTTTGT
TTGTTTGTTTGCTTGTTTTGCGACAAGGTCTCACTACATCACTCAGGCTGGAATGCAGTG
GCACAATCCCAGCTCACTGCAAGTTCTGCCTCCCGGGCTCAAGTGATTCTCCCACCTCAG
CCTCCTGAGTAGCTGGGACCACAGGCGCACGCCACCACACCTGGCTTTTGTTTTTTTGTT
TGTTTGTTTTGGTAAAGACAGAGTTTTGCCATGTTGGCCAGGCTGGTCTCAAACTCCTAA
CCTCAAGTGATCTGCCCGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACC
GCACTTGGCCCCAATTTTCTTTTCTTTTCTTTCTTTCTTTTTTTTTTTTTTTTTTGAGA
CAGAGTCTCACTCTGTGCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 181>:

GNMCJ04R gnm_181

CGGCGCATTCTCAGCCGGAGTACCGCAAACTTGGCCCGTTCGTGGCTGATATTCACCAGT
GGCAAAATCTGGATGACTATTACAACCAGTACCGCCAACGCGTAGTTGTTTTGCTTTCTC
ACCCCGCCAACCCGCGCGATCACACCAATGTTTTGATGCACGTTCAGGGTTATTTTCGCC
CGCATATTGATTCCACAGAACGCCAGCAGCTGGCTGCGCTTATCGACAGTTATCGCCGTG
GCGAGCAACCACTTCTTGCGCCGCTGATGCGTATCAAACACTATATGGCGCTTTATCCTG
ACGCCTGGCTTTCAGGGCAGCGTTATTTCGAACTTTGGCCGCGTGTGATTAACTTGCGCC
ATTCAGGCCTCTTATGACTACCCATCTGGTCTAGAATAAACACAAATATACGTCTGCACG
ATAATCTCGCACTGGCTGCCGCCTGCCGCAATTCGTCTGCACGCGTGCTGGCGTTGTATA
TCGCTACACCACGCCAGGGTCTGACGCATAACATGTCGAAACGTAAAGCTGAACTTATCA
ATGCTCAACTGAATGGGCTACAAATAGCGCTTGCGGAAAAAGGTATTCCTTTATTGTACC
GTGAAGTGGATGACTTTGTCGCCAGTGTCGAAATAGTTAAACAGGTGTGCGCGGAAAACA
GCGTTACCCACCTGGTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 182>:

GNMCJ04F gnm_182

CGGCGATCAACTACTCCATCAATGCATATATTGAAGTATTTGATCAAATTACCTGGGGCG
CACTGGCGTGTGTAGGACTGGTACTGATGATTTGGCTGTATCAGGCGCTGAAATTCAGAA
ACCGCGCGCTGGCGCTGGAGTCTTAATAGGCCAGCACCGATGCCTGATGCGACGCTTGAC
GCGTCTTATCAGGCCTACGTATTTCCTGCAATTTATTGAATTTGCACAAATTTGTAGGCT
GGATAAGGCGTTCACGCCGCATCCGGCATCTGGGCTCGATTGCCTGACGCGTCTGTTATT
TCCCCTTCCGCGCCGCCTCATACGCTGCCAACGTTTGTACTCTCGCTTCTTTGTGCTCGA
CTATCGGTTGCGGATAATCCAGCGTCACACCTGCTTTCTGCGCCCACTTCCACGGCTCAT
GCACCACTTTCCCTGGCACATCGCGCAGTTCCGGTAGCCACTGGCGGATAAACTCGCCCT
CATGATCAAATTTCTCGCCCTGGGTTGTCGGGTTGAAAATACGAAAATACGGCGCTGCAT
CGGTTCCGGTTGAAGCGGCCCACTGCCAGCCACCGTTATTGGCTGCCAAATCACCATCAA

TCAGCTGCGACATGAAATATCGCTCGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 183>:

GNMCJ05F gnm_183

CCCAGCTACTTGGGAGGCTCAGGTGGGAGGATCACCTGAGCCAGGGAGGTTGAGGCTGCA
GTGAGCCATTACTGTGCCACAGCACTCCAGCCTGGGTGACAGAGCGAGACCCCATTTAAA
AAAAAAATAGTCTTTAAACTAATAATAATACCACTACCTTGCATCTGTAAAGGGCCACCT
TTTCCAAATTTCCCCTTCATATGCCAAGCTGTGTAAGAAACAACTCTTTGAGATTTTTAG
GGCAGCTACTATTGATTCCACTTTACAGCAAATCTGAAGCCAAGGCCAGGCGCGGTGACT
CACGCCTGTAATCCCAGAACTTTGGGAGGCCGAGGTGGGTGGATTACGAGGTCAGGAGAT
CAAGACCATCCTGGCCAACATGGTGAAACCAGTCTCTACTAAAAATGCAAAAAATAGCTG
GGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCT
TGAACCAGGGAGTCAGAAGTTGCAGTGAGCCAAGGTCGTGCCACTGTACTCCAGCCTGGC
CACAGAGCGAGACTCCGTCTAAGAAAAAAAAAAAAAAATCTGAAGCCAAAAGAAGAAAGGT
CACATTTCCAAAATAAGCATAAGAATTTTATCTCATCCTAAGCAAGAGACTCTGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 184>:

GNMCJ06R gnm_184

ATGGCTTGTACTACATTGTGAATATATAAAAATCCATTGAATTGTAAACTTTAAATGGGT
GAATTTTATGTCAATTAAAGCTATTTTTTAAAAAAGACCTATATGAAAAACTTGAATTTT
GGGGAGTTAGTTGTATTAACCAGGCCCTATCCAGTCTTTTTTTCAAAATTAGAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 185>:

GNMCJ07F gnm_185

CCGGAAGAAAGTGAACTCTGAGTAGAGCAGGGGAACACCGAAGATGCTCCAGTGCAGATC
AGGAAGGAGCAGGGGATGAAATGTTACAAATTCTAGAACTCAGAGAGCTGAAGGTAATTA
CTTCCTTTTCAAGTTGTGAAACATGTTAACCTGTGGTAAAATACTTATAAGATGATAATT
ACCATCTAACCGTGTTGAAGTGTACAGTTCAGTTGTGTGAAGTATATTCATGTCATTTTT
TTTTTTGTTTTTTTTTTTGAGACGAGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGTG
GGATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCCT
CCCGAGTAGCTGGGACTACAGGCGTGCATCACCATGCTCAGCTAATTTTTGTATTTTTAG
TAGAGACGGGGTTTCACCATGTTGCCCAGGATGGTCTCCATCTCTTGACCTTGTGATTCA
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGGAACCGCATCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 186>:

GNMCJ09R gnm_186

CCATGACAGGTCCTTTTTTTCTGTCTGTATACAAGATTAGGGGAGTGTTTGGTGGGAATA
GTCTGCTCTGATGAGGAGGCAGTCATTCTGGTGTTCCTGTTTGCTGCGTAATGTGGGAAC
ACATTTTGTCCAGCACTTCTGGATAAAACACACAAACCAGGCTCGACAAACTCCCCCAGT
GCCACATCACTTGTTCATTTCAAGAAAGATAGCTGAGGCCGGGTGCAGTGGCTCACACCT
GTAATCCCAGCACTTTGGGAGGCCGAGGAGGGTGGATCACCAGGTCAGGAGATTGAGACC
ATCGTGGCTAACATGGTAAAACCCTGTCTCTACTAAAAATACAAAAAAATTAGCTGGGGT
GGTCACATGTGCCTGTAGTCCCAGCTACTCAGAAGGCTGAGGCAGGAGAATGGTGTGAAC

CGGGGGGCGGACTTGCAGTGAGCCAAGATCGCTCCACTACACTCTAGCCTGGGCGACAGA
GCGAGACTCTGTCTCAAAAAAAAAAAAAGAAAGCCAACCTTCAATCACTTCAGCATCCTG
GACAGTTCCGAGCACATTGCAGGCATAATAGCTGTTTGAGGGCAATAAATAGCAGTCCTC
AAAGCCATTGAGCAAATACCTGCTTCCCCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 187>:

GNMCJ09F gnm_187

CCGAATCCTAGCTAGATTTGTCCGCCAACAATATCTGAACCCCTGGCCTCTTGGAAAAAA
AAGAGAGAGAGAGAGAATATAAAATGTACTATACAGGGTTAAATTGACACTTCCTTCTTG
AAGTATTTAGAAGTACTAATGGAGAGTTGAAAAGGGAAGCATGATTTCCTCCCTATGTGG
CAATGTTGTTTAATGCAATGCAGGACAGCTTCCCAGTGCTTCAAGTCTTCCACCTCCTGA
AACACTGATGTGGAGGGGGAAACACAGGCCTTAAAGATCAGAGGCCTGAATTCGAGCCCC
TGCTCTGCCACATACTTGCTGTGTCACCTTGAACAAATTACACAGCCTCCGTGGGCTTTG
GGGATAAATGTGAGACGGCATAGAGAACTCATCTCCTCTGCTGACTGATTCTGATCCTTT
GGTTTGACTGCCTGAGCACCATGTGATGAGCTCTGTGAGGGCTCCATGGAGGGAAAATGC
AGTCATCTATTGGTGATATCTGCTATGGACAACATGAGTTGGAAATTCTGCCAGCCAGAC
TATGTCTTCAAGGACTGTGAACAAGGTGTCTTCTGAAGTCACTTCCAGATCAAAGGACTT
GGTGACTCGTTCCAATGGGACTGGAATACGAGAGGGACTCTATATCATCATGGTTATTTT
CTAAAGGCCCTGAAGAATCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 188>:

GNMCJ10R gnm_188

CCCAGGCTGGTCTCGAACTCCAGACCTTGTAATCCGCCTGCCTCAGGCTCCCAAAGTGCT
GGGATTACAGGCATTAGCCACCGTGCCTGGCTTTTGGTGTCCTTCTCGTTTAGTCCACAC
TCCTGGCCACTTCCCAGGATGCAAACTGGCTCACAAGGATTGGATTAGGACCCATTCCAA
TCAAATAATAATAACAAACATTTGTTTATTTTTGGCTTCTGGATATTAATTTTAATTACT
TTGAAACAACATAATTTACTACCAGATGTTTAACAAGCACCCATTATAATTGCTAAACTG
TGAATTTAGTTTTAACTGTGTCTGACCAACTATACAAAACTCATCAATTTTAATTTTGAC
AAAAGGTAGTAGGCTGGGCATGGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCA
AGATGAATGGATCACTTGAGGCTAGGGGTTTGAGACCAGCTGGACAACATGGTGAAACCT
GTCTCTACTAAAAAAAGAAAAATTAGATGGCCATGATGGTGCACACCCGTAATTTCAGCT
ACTTGGAAGGCCGAAGCAGAAGAATTACTTGAACCCAGGAGGCAGAGGAGGTTGCAGTGA
GCCGAGATCATGCCACTGTACTCCAGACTGGGCTGAGCTACAGAGCAAGACTCTGTCTTA
AAAAAAAAACAGGCGAAAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 189>:

GNMCJ10F gnm_189

CCGGTATTAGGAAAGAGACAAACCACTTTGTCCTGGGCTGGGAGGGAACAAAACCGTCTC
CCTCAACTCCCTAAAATCAAATTCAGAGAGGACTGTCAAGGTGGACCCATGGAGCCCCAG
TCAAGGTCCAGAAACAAGGATTCAAAGCCTTCAACATAAAGTCACCACGAGGCTAGAAGA
GACCAGATGAATGGGCTGGCCTGGTACCTGAGTCAGAAAGTGGGAGTGCGTGGGCATTGG
TCATGGTGCCATAATGGAGACAGTGAGCACAGGAGTTAAACAAGATGGCTCTGAGGCCAG
GTGCCCTGGGTTCAATCCCAGCTGCGTAACTTTCACGTGGCCTTTTCCAGTTCCCTTACA
CACTCTGTACCTCACATGAATGAACTGGAAAATGAAGACTACAGCACTACTGACTTCAGA
GGATTGTTGGATTAAGTTATTAATTCACTTAGAACACAACCTGGCACATAGTAAGTGTTC
AGTAAATGTTTGTTATTCCACACCCTCCCTCCCTTGGCCCCGCGATGGAGGAAGCAGGCT

AGGACCAGCCCTCGGAGCTGCAGCTGCCCTTCATCCCTCCCTCGGCCTCTCTAACGAGAT
CCTGCTCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 190>:

gnm_190

AAATTTACTCAACCATTCTGGAAGACAGCGTGGTGATTCCTCAAGAATCTAGGACTAGAA
TTACCATTTGACCCAGCAATCCCATTTCTGGGTATGTACCCAAAGGATTATAAATCATGC
TACTATAAAGACACATGCACACGTATGTTTATTGTGGCACTATTCACAATAGCAAAGACT
TGGAACCAACCCAAATGTCCTCCAATGATGGACTGGATTAAGAAAATGTGACACATATAC
ACCATGGAATACTATGCAGCCCTAAAAAAGGATGAGTTCGTGTCCTTTGCAGGGACATGG
ATGAAGCTGGAAACCACCATTCTCAGCAAACTATCACAAGGACAGAAAACCAAACACCGC
ATGTTCTCACTCATAGGTGGGAATTGAACAATGAGATCACTTGGGCACAGCAAGGGGAAC
ATCACACACCGGGGCCTGTTGGGGGGTGGGGGGAGGGGGTGGGGATAGCATTAGGAGATA
TACCTAATGTAAATGATGAGTTGATGGGTGCAGCAAACCAACATGGCACATGTATACCTA
TGTATCAAACCTGCACGTTGTGCACATGTACCCTAGAACTTAAAGTATATTTAAAAAAAA
AAAACCTTCCCTTTCTTGAATGTAAATTGGTTCAACCATTGTGGAAGACAGTGTAGCGAT
TCCTCAGAGATCTAGAACTAGAAATACCATTTGACCCAGCAATCCCATTATCGGGTATAT
ACCCAAAAATATATAAATCATTCTGTCACAAAGATAAATGCACACATGATCATTGCAGCA
CTAATCACAATAGTAAAGACATGTAGTCAACCCAAATGCCCATCAATAATAGACTGGATA
AAGAAAATGTGGTACATATATACCATGGAATACTATGCAGCCATAAAAATGAACAAGATT
ATGTCTTTTGCAGGGACATGAATGGACCTGGAAGCCATTATCCTCAGCAAACTAACGCAG
GAACAGAAAATGAAACACCCCATGTTCTCACTTGTAAGTGGAAGCTGAACGATGAGATCA
CATGGACACAGGGAGGGGAACAACACACACTGGGTCCTATTGTGGGGGTGGGGTGGGGGA
GGGAGAGCATTAGGAAAAATATCTAATGCATGCTGGGCTTGATACCTAGGTGGTGGGTTG
ATAGGTACAGCAAACCACCATGGTACACGTTTACCTATGTAACAAACCTGCACATCCTGC
ACGTGTACCCCAGAACTTAAAAATAAAAAATACCCCCAAACACACTCCTTAGGTATATGT
AACTATTTTTCCCGGGTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 191>:

gnm_191

GTAAACCAAATTCGAGGATTGTGTCTAGGACTTGAAGGGCCATAGGCATTGCAACCACCG
CCAACTCCCTCCTTTTACTAATCGTAGTGCTTTATGGCCATAAAGCACTCTTTCTAAATC
TAAAAATGATTTAGAAGAAGGAAAAGACCAATATGATGATAACAATGTGGGAGATTCCTT
TTATCTTTTGTAGCCAAATGACAGTAAGGAAAACAGACAGTATGCTGACCTCATCGTTTC
TCTAGGTTGCCAGTTTTTTTCACTAAGATGTATATAAATGAAACCCTTTTGCTCTGCAGG
CTATTATACTATTCCTTTTAAATTCAGCATCTCTTCCCTCCTCCGTTCATGCAGATTGTG
GAAGAGAACATCATTGGGAGAGAGAGTTTATTGGTTACTGCTCACCTGAGTAAGCAGTAA
GCCCAAGTGGCAGAAAAACCCATTCAAACTGGCTTGAAGCAAAAAGGGAATTATTGGAAC
ATGTAATTGAATAGTTTTAGGTGTAGGGCTGACTTCAGACGCAGCTGGATCCAGAGACTC
AAATGATGCCATCAGAAACATCTTTGGCTCTTTGTCTTATATGCTGAAAACCACTGAATT
GTGCACTTTATTTATGTAATTTTTTTTTTTTTGAGACAGAGTTTCACTCTTGTTGCCCAG
GCTGGAGTGCAATGGCCCCATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGA
TTCTCCTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCATGCCACCACGCCTGGCT
ACTTTTTGTATTTTTAGTAGAGACAGAGTTTCATCATATTGGTCAGGCTGGTCTCAAACT
CCTGACCTCAGGTGATCCGCCTGCCTTGGCTTCCCAAAGTGCTGGGATTACAGGTGTGAG
CCACTGCACCCGGCCCAATTGTGTACTTTAAATGGGTGAATTGTAAGGTGTGGGAATTAT
ATCTCAACAGAGCTGCCCCCACTTCCCCAAAAAAGGACCAAGAGGTGAGGAAGTGGAGAC
AATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 192>:

gnm_192

CATGTCAAAATCCTAATCTCCAAGGTAATGGTATTAGAAGGTAAATCTTTGGTAGGTGAT
CAGGTCATGAGGGTGGAGCCCTCATGAATGGGATTAGTACCCTTATAAAAGAGAACCCAG
AGAGCTCATTTGCTGCTTCTGCCATGTGAAGATACAGTGAAAAAAGAAGCAGGCCCTTGC
CAGATACGAGTTTGCCAATGCCTTGATCTTGGAATTCCCAGCCTCCAGAACTGTGAGCAG
TAAGTTTCTATTGTTTATAAGCTACCCAGCCTATGGCATTTTGTTACGGCAGCCTGAATG
GACTAAGACAGTCTACCTAGACCATTATTTCCCTTTCATCATCCACCAGCCAATTCCAGC
ACATCTTTTAGATCTCAGCTTAAATACTCCCTCCAAGACCTCCCTCTATCTCTAATATGA
ATGAAATCCATATCTCAAGTTCTTCACAGAATCCTCTACTCTTTCCTTCATGGCATTTGT
CATAATTTGTAATTATATATCTAGCAAAGTTCTTTGTTGTTAAACATCTACCTCCTCCAC
TCTCCTAGAAACTCCACAAGGACATCCCTGCACCCAGTGCCTAGGCAATGCCAGACACAT
AGCAGATGCTCCATTAATTATCTGTCGAATGACTGAATGGCTTCCAAGTTAGTTAACTGG
GCACCCTTGATAACAGATTCTGGCCTATTTGAAGGATCAAAGAAGAAAGTGGTGCTACCT
TCTCCCCTGCCACTATCTTGCCCACTTGTGGTGCCAGTTCAGGAGGTTTGGAATGGATGT
GGCTAATGATAGACGTAGACCTATTGCCTTTCTTGGATCATAATTCTGCCAGGCTCTGAG
TCCATGTGGCATCGATGGCTAATTGTCCTCCAAAATTTATCCTCTCTTCTTCCATTTATA
CCCTCCCATGGAGTTTTAACAGGGCATGTGGTCACCCTACTGGGATCTCACTTCTCAGCT
TCCCTTGCAACTGGATGTGGCCTTGTGACTAAATTCTCATGAACAGAATGTGAGTGCAAG
TGATGTGTCAGTATCTTCATCACTTTCCTAAAAAGGGAACTGCTGGTCCTCCACTTCCTC
TCTTTCACCCTTCCAATGAGCCAGAACATGCATGTGATGCTGGTGAGTCAGCTTCAGTCA
CATGAATAAAAACAAACTCCAGGAGATGACTAAGCAATAAGACAGAAGGAACCCAAGTCC
CTAGACGAGTTCACAGAACCAAGCTACCTATCCAACCCTGGGCCCACCTGGATTATAACA
TGAGAAAAACATAAGTCCTAATCATATTTTTGAAGCACTGCATTTTAGGGCTTCTTTGTG
ACAGCAGCCTACCCTCTAGTCTAATCAATATACCTCACCAAGTCTCCTGCTCCTAAGGGA
GACAAAGAAGCAAAATGAGTCTCAAAACATCATCCAAATGGAATAGATACAGACCTGTAA
TCCCAACACTGTGGGTGCCCAAGGCGGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAA
CCTGGCCAACATGGCAAAACCCTGTCTCCACTAAAAATACAAAAATTAGCCGGACGTGGT
GTTGTGCACCTGTAATCCCACCTACCCACGAGGCTAAGCCGGGAGAATTGCTTGAACCCA
GGAGGGGGAGGTTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGTAACAGAG
TGAGACTCTGTCTCAAAAAAATAAATAAAAATAAAAATAAATAGACCATTAATTAATAGA
TATAGCCTTGGTCTGTGACCAAAGCTCAGAATGTTATGATATTCCTTTCCTATGTCACCT
CAACTTGCCCCTGTCATCAGACAGGACAAATTCCCCACTGGTCCTTTGCACTCACAGCTG
TTACATTTGAAATGGGAGCTTAGCCTTCCCTGCCCTGGTTCCTCCTTAGACTCATTTGGG
AAAACAGGAAACGTAATTATTTCTGCCATTACCTTTATCTCATGGAGCCTGACAGAGTGT
AACCAATGGTAGGAATTAAAACACTCTAATTGCCAACTCACAACAACTCCCGAAAAAAAT
CATTTTAACTCATTATACATATTAAATTATGACATGCTTAATGTCCAAACCTAATAGATT
CAGTACTCAGGAAATCCCTTATACAGGTAGACACGGGTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 193>:

gnm_193

CTTAGATTAATGGGCAAAAAAGTTACAATCATGGGATGTTTGGCTTCCCTATAAAGACTA
ATGTTCATAGATTGTTTTTCAAAAATGAGGACTCCCCACTAAATGGGTCCAGCTACACAC
ATGGTCCTGCAACACGACTCAGATAAGGGGGACCTGAAGGCTAAACTCTTAACACTTTTC
TCAGTTCTAAATTTCTTCCTAAGGGGAGTAGAGGAAGTCACACCCCAGGCCAGAACTAAC
ATTCCACTGATCTCAAATTTTTAGACAAGGCTTCTCCTCCTAAGCCAATTACAAATCAAw
ACATCTTTAAATCTACCTTTGACCCATGGGTTCCCACTTTGAGACGTCCTGCCTTTTTAG
GTCAAACCAATGTAGAGCCTCCCATATATTGATTTATAACTTTGCATGTAACCTCTGCCT
TCCTGCAATTACAAATCCTTACCTATAAGCCATCCGGGAGCTTGGGACTTAAGCATTAAC

TAATTATCTTTGCTTGGTGCCCCTCCAATAAATACCCCACTTCCTCTTGCTACAATCCCA
ATATCAATGTTTGGTTTTGCTGTGCTGGGCAGGGGGACCCAAGTTAGGTTCAGTATCAGC
AAGAAGGCAAGACAGAGTGTGTGCTAGCAAGACAGAAGTCCGTGTGTTTGGTAACCTAAT
CTCAAACTGAAATGCCATCACCTTTGCTGTGTTCTACTGATTAAAAGCTAGTCACCCATA
TGTTCATTGCAGCACTATTCACAAAAGCAAAGACATTGAATCAACCTAGGTGCCCATCAA
TGGAGAATTGGAAAAAGAAAATGTGGTACATATATACCATGGAATACTACACATCCATAA
AAAGGAACAAAATCATACCCTTTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 194>:

gnm_194

CCCTTTTCTCGGTGGAATGTGCTTCTCCTTCATACATGATATAACTTGATTTGAACAATG
TCACAAAGATATTTTCTCTGTTAGATTAAAATTTTGTTTGCATGAATTTTTCAATAGCTT
TAAGCAGTTGAATAGCAATATATGCAGGAAGAAGCTGAGAGACTTATGTAATAGATATTT
CATGTATCTATAACCCACACTGCTGCCCAGGAAATGTGCGCTGCATTAATAGAGAGGATT
TTTTCCTGCTGAATACCTTGAGGAGTTGGCCAACACGTTTGGGAGTAGAAGTAGAAAGGG
CCAGGTGTGATGGCTCATGCCTGTAATCCCAGCACTCTGGGAGGCCAAGTGGGGAGGATT
GCTTAAGCCCAGGACTTTGAGGCCAGCCTGGGCAACAGAGTGAGACTCCATCTCTAAAGA
AAAAAAATCATAAArrACTAAAATTCTCTGCCAAAATGGACACAGAAAAAACTGACAATC
CAGAGAAAGATAATATGCAATGAAGCTAGACATGGCCAAATTAGAAAATGATATTGAGAG
AGAACAAGAGCAAGAAAGAGGAGCCCTCAGCATTGAGAGGGCTGAGGAAGCACAGAAATG
ACTGATGGGTTGGTTAGTTAGTTACTTTTTGTGAAGTGTGCAATGTAAATTTCACTTTGG
TCTCCCCACCGGAATCATCAACTAAAGTCTACACTGCTATATCGGCTATCTATTGCTGTG
TACAAATTATTCCAAACTCAGTGGCTTAAAACAACACATTTATTATCTCACAGTTTCTGT
GGGTTAGGGATTCGAAGATGGGCCCCTGCTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 195>:

GNMCJ15R gnm_195

CCAACCAACATGTACAGTATCTCATGTACACAGTCTTCTAAGGATTGACACTGAGGTTGC
TTCTGGATTTTTGCAATTACAGATAGTGCTGGATACAAATCTTTGCAAATATACCTTGCA
CGCATGCATGAGAATATCTGGAGAATAAATTCCTAGGGTCTAATTGTGGGTCTATTTAAA
TTTTGCATAAAAATTTGATACATGTTTTCTAACCACCTGCTCCTCCCAAGAGGTTGCACC
AGCTTACAGTCCCACCAATCAGGGAAGAGGGATTTTATTTTTTTATTTTTTTTTTTTGGG
ACAGGGTCCGGTCCTGCCACCCAGGCTAGAATACAGTGGCGTGATCATGGCTCATGGCAA
CCTGGTCTTCCCCAGTTCAAGCAATCCTCCCGCCTCAGCCTCCCCAGTAGCTGGGATGAT
AGCCGCATGCCACCACACCCAGCTAATTTATATTTTACTTTTTGTAGAGACAGAGTCTCA
CTATGTTGCCTAGGTGGATCTTGAATTCCTGAGCTCAAGCGATCCTCCCACTTTAGCCTC
CCAAAGCTCTGGGATGACAGGTGTGAGCCACCATGCCCTGCCTGAGAATTGTCTTCTCAC
ACCCTTGTTAATAGGACTATTATCACATTTTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 196>:

GNMCJ16R gnm_196

GTACCCGTTTCTTTTGGTGCCAATCTTGAGCGCGCGTAAACCAGCTTCTCCGCGCTCTTC
ATAGACCTTCAGCCACCTGGCTACAGAACCACTACCAGCAAGCATAAAGTGAGCAGCAGC
CTGATTAAGGGACATGTGCTGCTCGATCACAGCTTTCACGACCTTAATACGCAACTCTGG
ATCAGCACTAACGCCTTTAGGTTTGGGAATTAAACCTTTTTCTCCATGTTTTTCATAGAG
GGCAACCCATGTCCTGACCTGGGTTCGGGGGACACCAAAACGTGCCGAGATGATCCTGTA

ACCATCATCAGTTGTGAAGTAGTGATTCACGACTTCAAGGCGCTTTTCAAAAGGGTATTT
TGGCTTTGACATATTAGGGGCTATTCCATTTCATCGTCCAACAAAATGGGTGCAGTACAC
TGGAGGGCTATCAGTACACTACCTTTACGCCCGCCACCCTCGCGTCTCGGAAGCCTTAAT
GAGCGCCCTGGCGAGACCCGCGAGCAAGGCTACGCCCTGGACAGCGAAGAGAACGAGCAG
GGCGTGCGCTGCGTGGCGGTGCCGGTGTGGAACACGAGTCCCGCGTCATCGCCGCCCTGA
GCCTGTCGACGCTGACCTCCCGCGTGGACGACGCGGAGCTGGCTAATTTACGCGAGCAGC
TTCAGCAGGCCGGGCTCGCGCTCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 197>:

GNMCJ16F gnm_197

CCTGGATCTAGGCGTACGTCAACTATTCCGCCAGCAGCAGCGTGCAGCCGGTTGAGGTGC
TCACCACCATCAAAATTCTGTTCTGCGTGGTGCCGGTGGTGCTCTACGCGGGCATGTTCA
TCATGCTGTCGCTCTACAAGCTCACCGATGCCCGCGTGGAGGCCATCAGCCGGCAGCTGA
TTAAGCACCGCGCGGCGCAGGGCGAGGCCGTTCCCGACGCCGCGACAGCGCATCCCATTA
ACCGGAGGCAATATGGAAATCACTAACCCGATACTCACCGGCTTCAACCCGGACCCGTCC
CTGTGCCGCCAGGGCGAGGACTACTACATCGCCACCTCGACCTTCGAGTGGTTCCCGGGC
GTGCGCATCTACCACTCCCGTGACCTGAAAAACTGGTCGCTGGTCAGCACCCCGTTGGAC
CGCGTGTCGATGCTGGACATGAAGGGCAACCCGGACTCCGGCGGCATCTGGGCGCCGTGC
CTGAGCTACGCCGACGGTAAATTCTGGCTGCTCTACACCGACGTGAAGATTGTCGACTCG
CCGTGGAAAAACGGCCGCAACTTCCTCGTCAACGCGCCCTCCATCGAGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 198>:

GNMCJ17R gnm_198

GTACCGCGGATTATTGTTGGTTAATGCTGGTGTTCCGTACTGAACCACCAGTTGCCATGT
CTGAAACTTAATAAAATCGCTGATCGACTTGGCGTACGATTGCACAATCACCAGTACGCC
AAACATGGCGGGCGTCATCCCTTTACCGGCACACGAGAGCGCCAACAGACCCAGCAAGGC
GCTCACGACATTACTGGAGCCTAACCAGGCGCTATTGCGAATAATGGTGCGAAACGCGCC
ATCTGCAAACCAATGTTTGATGTTAAAACCCGCCAATTCAGCCTGACCTTATCGTTGATA
GTAAAAAGTATCCCGCCAGCCTTAAGTTAAACTTCGGCGGTCAGAAACGATGGCAACCAG
AGAAACCGCCTTCTGTGCCTGTTCCAGCACTTCGCTGTAGGGCGCTCTGGAATCAATCTC
AAGAATTTTTGTGCCGTTATAGCCAATCTTCGACATGACACCGATTTTGTCCTGCAGCTC
GGCATAGTCATGGTCAGGCTTGCGGGAGATGGCAGTCTCAATATCAATGCCCAGGCGAAT
AATTAATTCCGGGCGATATTGCGCCATTTGTTGGTATAAACGCCGTTCGCGCTGCGCCAG
AAACATGCTGATTTTCCCGGTCGCACGTACGACGCCAATCCCCGGTCCATCATAATAAAA
GCCCGAAATTTCAGCCTGCGGGAAGCGATCGCTGACCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 199>:

GNMCJ17F gnm_199

CCGGATTTTCCCATCAACGGTAATTTTGTCACTGCACGACCGACATTTCCGGCCTGTTTT
CCTAAATGAACTCTTTCGGCAGCACCATATTTTTCGACAACGGTAATAAGATGTTCACAC
ACCGTTGACTTGCCTGAACCATCGCTACCAATAACGGCAATTAATGGAGGTGTTATTGAC
TGCATGAATATATCCTTTAATTTAAATATCCATTAAAAATATTTATTTGGTTAATATGTT
TTTATGAAAGCGTAATTCAGGTCAATGTCACAATTAACCATTGTCACAATAAGGTTGAAC
GGATATTCTGAGCACGGACCACGTAATATTCAATACATTATTTACTGCCGGGTTTTTCGT
GAATCAACGTAATATGTCAATAATTAATTCCACGCCAGGCGTGTTATTGCCATTGTAGGA
TGTGATGGTTCAGGTAAATCGACCCTCACGGCAAGCCTGGTAAATGAACTGGCAGCAAGA

ATGCCAACAGAACACATTTATCTCGGGCAATCGTCCGGGCGAATTGGCGAATGGATTTCA
CAGCTCCCTGTTATTGGCGCACCTTTTGGGCGTTATCTGCGAAGTAAAGCGGCACATGTG
CACGAAAAGCCCTCAACACCGCCTGGCAATATTACTGCACTGGTTATCTATCTGCTTTCC
TGCTGGCGGGCGTACAAGTTTCGCAAAATGTTGTGTAAAAGCCAGCAAGGCTTTCTGCTC
ATCACCGACCGCTACCCGCAAGTTGAAGTGCCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 200>:

gnm_200

GTACCGGCGCTACCTGGCTCAAGTCCGAGCTGTGAACACTGTACGATCGCACTGACAAAA
CTCATAGTGTCACAGTTTCCTAACGCCGGAACTTTACGAATTTCTGTGGTGGCGATACGG
ATCATACGTTCAGCCGTCATATGGCGTGGAAGAGCTGCTGCCAGTTGCTCTTTCATTGAT
GGCTGGTTAATAAAACTAATCACGTCGCTATTTTTAACTGCTGCTGGTGCACGGTTTCCC
TGAGTTTTTTGCAGATCGGCTTTTGCGATTGGTGGTTGCTTAGTCATTTGCATATTCCTT
AGCCCAGCGGGGCAGTGATAATGTCTTAATAGCTGGCCATTCATCGGTATTCAGGCAGTC
AGACAGGGTTCGCAGATTGCGGTGATATTCCTGTTGACCTGCCAGTwTTGCTTCTTCGCC
CATCATGAAAATTTCAACCGGATAACGTCCGCATTCAATAGTTGTGCTGGCAACCAGAAA
AACGAAAGTTGGCTGCACTCCAAACTGTGCTTCATAACCGTCACTGTAGAATGCATCCTG
AACGTGATAGCGGTAGTCGTAATAAGCGGTTTTGAATCGTTGAATATCCGCCGTAGTTTT
CACGTCCATGATCCAGTGAAATTCAGGGATAATTTTGTCCGGACGGCACCGACACAAAAT
TCCTGTTTCAGGATCTTCCCAGTAAATTGATGATTCAGCGTGTCCGGCGCTTTCAACAAG
CCATTGCCCCAGCGGCAAAGCCATAACGCTTTGATACATGAGTACAATTTTCCGGCCTTC
TTCCGCAGTGATAACCGTTTTTCCTGTGCTTGCGCATTCCATCAGAAACGCTTTCTCTTC
TTCTTTTCCGGCGTTTGTACGGCGGTTAAATTCAGGTGCTACGATAAAGCGGTTACTGAA
TTCTTCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 201>:

gnm_201

CTGCCACGAATTTTCCTGTCGTTAATGACCTGCCCGCTGAAGGTGAGATCGATTTTACCT
GGAGTGAACGCTATCAACTCAGCAAAGACTCCATGACATGGGAACTAAAACCGGGAGCAG
CACCAGACAACGCTCACTATCAAGGCAATACCAACGTCAACGGCGAAGACATGACTGAGA
TTGAGGAGAATATGCTACTCCCAATTTCTGGCCAGGAACTGCCCATTCGTTGGCTTGCTC
AACACGGCAGCGAAAAACCGGTAACGCACGTTTCACGCGACGGACTCCAGGCATTACACA
TTGCTCGGGCTGAAGAACTACCGGCTGTTACTGCCCTGGCTGTTTCCCACAAAACCAGCC
TGCTCGACCCGCTGGAAATTCGCGAACTCCACAAACTGGTTCGTGACACTGACAAAGTTT
TCCCTAATCCTGGTAATTCAAACCTGGGACTGATAACTGCTTTTTTCGAAGCATACCTGA
ACGCTGACTACACCGATCGAGGACTGCTGACAAAAGAGTGGATGAAGGGTAATCGTGTTT
CACACATCACTCGCACGGCTTCCGGTGCTAATGCTGGCGGCGGAAACCTCACCGATCGCG
GCGAAGGTTTCGTACACGATCTGACGTCACTGGCGCGCGACGTAGCCACTGGCGTACTGG
CCCGTTCAATGGATCTGGACATCTATAACCTTCATCCGGCACACGCTAAACGCATTGAGG
AAATTATCGCTGAAAATAAACCGCCCTTTTCTGTTTTCCGCGACAAATTCATCACCATGC
CTGGCGGGCTGGATTATTCCCGCGCCATCGTGGTTGCGTCCGTAAAAGAAGCACCAATTG
GGATCGAGGTCATCCCCGCGCACGTCACTGAATATCTGAACAAAGTACTGACTGAAACCG
ATCATGCCAACCCTGATCCGGAAATCGTGGATATTGCCTGCGGTCGCTCCTCTGCCCCGA
TGCCGCAGCGAGTAACAGAAGAAGGAAAACAGGATGATGAAGAAAAACCGCAACCATCTG
GAACAACGGCAGTTGAACAGGGAGAGGCTGAAACAATGGAACCGGACGCAACTGAACATC
ATCAGGACACGCAGCCGCTGGATGCTCAGTCACAGGTAAATTCTGTTGATGCGAAATATC
AGGAACTGCGGGCAGAACTCCATGAAGCCCGGAAAAACATTCCATCAGGAAATCCTGTCG
ATGACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 202>:

gnm_202

CCGTGTTTGCATCAAATGACTGGCCTGTTCAAGGACCCATTGACCCAGCAATGTGTGGTT
ATTATGAAACCAGAGGCAGAACGAGCTTTCTCTCTTTTACCTAGGGGGCTGGGAGTATTT
CAAGTGTCTTCCGATTTTTATAACCCGCAGTCCTAGAATTAACCCCGCACCCCACTGCCA
TTTACTCTCTCAATGTAGAGTTGCTTTGAGTAGGTAACAGCTTAAATTCTTAGAAAGCTG
AGCCCCCTAGAGGAAATTTCTAAGGTCAAGCACTCATTTGCAACTTTTTATTCGCTAAAA
ATGTAGAGAAGGGAGAAGTCAAGAATAACACTGCTAAAAGGGAATTTTATTTTATTTTAT
TTGTTTATTTATGAAATGGAGTCTCGTTCTGTCGTCCAGGCTAAAGTGCAGTGGCGTGAT
CTCAGCTCACTGCAACCTCCTTCTCCCAGATTCAATTGATTCTCCTGCCTCAGCCTCTTG
AGTAGCTGGGATTACAGGCACATGCCACCATGCCTGGCTAATTTTTATATTTTTAGCAGA
GACGAGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCTTGACCTCAGGTGATCTGCC
TTGCCTCAGCCTCCCAAAGTGCTGGTATTACAGGTGTGAGACACCGCACCCAGCCTAAAA
AGGAATTTAATATGGACAAAGAGTACGATCCACAAAGGAGAGACAACTTTATGAGCCCCT
TTGAGCACAGCATAATACTGTCTCAAAATATAGAATGTGCCGGCTGCCGTGGCCCATGCC
AGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGAGGATCACTTGAGCCCAGAAGTGCAAG
ACCAGCCTGGGCAACATAGTGAAACCTCATCTCTACAAAAAAATTTAAAAATTAGCCAGG
TGTAGTGGTGTGTGCCTGAGGTCTCAGCTACTTGGGAGGCTGAGGTGGGAGGATCACTTG
AGCCCAGGAGGTCGAGGCTGCAATAAGCCATGATCACACCACTGCACCCAAGCCTGGGTA
AAAGAGTGAGACTGTGTCTTGGCCGGGCGCAGTGGCTCACGCCTCTACTCCCAGCACTTT
GGGAGGCTGAGGCGGGTGGATCATGTGAGGTCAGGTGTTCAAGACCAGCCTGGCCAACAT
GGCGAAACCCCGTCTCTACTAAAAATACwATAATTAGCTGGATGTGCACATGCCTGTAAT
CCCAGCTACTCAGGAGGCTGAGGCAGGAGTATCACTTGAACCCGGGAGGCTGAAGTTGCA
GTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCATCTCAA
AAAAATAAAAATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 203>:

gnm_203

CCCAGTCCTGAGTATTTAAAATGTTTCATTTCTGTGCTGAGAGACAGAATTAGCACTTGA
TAAGGTTGCATAAAATGCCTGGCACACAGGAGATGCTCAGAAAGCATTTATCCTTTCACC
CAGCTTCATAACCTCTTCATAAAAAAAGTTGCAGACACCTCTCCTCACATGCACAGAGAA
ATATGGGACTATTCAAAGAGATGGACCAGCCACCTCCCTTCCCTCCCTGGGTGTTTTGCT
GCTCAGAGAATTCTGATGCTTAGATCACATCTTGGGAAAGGGCTCCAAGGCCCAGAGCTC
ATGCGCTTGCCTGTGGATGGTGGAGGTATTCCTCATGTTAAAGTTGGAGGAGCTGATCCT
CTCCAGAAACGCCTGGGCCAGCTCAGGTGTGATGTCATAGACCATGTCCAGCTGCTTGGT
GGCGTTGTCATAGCTGATAAACAGCCCAATCTAGTTGGTGGACAAGGACGAGAATATCAG
TGAGGAGGGTGGAAGTGGCCCAGTGTGGCCCCACCCTGGTGGTCTGCACTGTGCCCCATC
ATGGACACTTGGATACACCTCCTGGTTCTCATTGTCATTGATGTCTTTTTTTCTTTTCTT
TTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGACAT
GATCTCAGTTCACTGCAACCTCCACCTCCTGAGTTCAAGCAATTCTCCTGCCTCAGCCTC
CGGAGTAGCTGGGACTACAGGTGCCCACCACCACGCTTGGCTAATATTTGTATTTTTAGT
AGATATGGGGATTCACCATGTTGTCCAGGGTGGTCTCGAACTCCCAGCATCAAGTGATCC
ACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTAACGACCATGCCTGGCCTCAT
TGTCATTGATTTCTTAGTGGTCTGTAACTGCTACTTTAGTTTCCTCCTCAACCTAACTAT
TCTTTAGGAAAGAATTATTTTTTAATATCTGAGAAACTGGGCTTTTTAAAAGCTAATCTT
TGCACATTTATTTCTAGATTTGTTATATGGAGGTCAGAGAATGTGGTCCACAAACTTTCT
GCGTTGAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 204>:

gnm_204

CCCTGGAATAGCATAGTTAGGAGTGTGGGCCCAAACTGGATTTGAATCCTAGTTCCATCA
CTTAGTTGTGTGGCTTGAGACAATTTGATAAATTTTCTTGTGCCTCAGTTTCCCTTTATA
TGAAATATGGTTAACAACTGTGAGATTAAAATTTGTTCACACATGAAAATTGCGTAAGAC
TGTGCCCAACACACAGTAAATGCCCATGAATAGCCTTTTCTCATTTTTATTTTTTTTTTT
GGAGACAGAGTCTCACTCTGTTACCCAGGCTGGAGTGCAGTGGTGCAATCTCAGCTCACT
GCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTTCCAAGTAGCTGGAA
TTACAGGCGTGCACCACCACATCCAGCTCATTTTTCTATTTTTAGTAGATACTGAGTTTT
GCCATGTTGGCCGGGCTGGGCTGGAACTCCTGGCCTTAAGCGATCCTCCTACCTTGGCCT
CCCAAAGTGCTGGGATTACAGGATAAGCCACCATGCCCAGCCTATGAAAAGCCTTTTGTA
ATCTTACGTTTGCTTCTTTGTTTGTTTGTTTGTTTTGCGATGGAGTCTCACTCTGT
TGCCCAGGCTGGAGTGCAGTGGCTCAATCTTGGCTTATCACAACCTCAGCCTCCCGCGTT
CAAGTGATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTATGCACCACCATG
CCTAGCTAATTCTTTTGTACTTTTAGTAGGGACAGGGTTTCACTATGTTGGCCAGGCTGG
TCCCGAACTCCTGACTTCATGATCCGCCCACCTTGGCCTCTCAAAGTCCTGGAATTATAG
GCATGAGCCACCGCGCCCGGCCTGTAATCTTATAAAGAGATGGATGGATGGATGGATGGA
TGGATGGATGGATAAATTAATAAACAAATAAAATACTTAGACTGAAAGAATATATCCAAA
AGTACCCATTGGTGTTATCTTAGGGAAAGGAGTGGTTATGGGAGTCTTTCACTTTAACAT
AACTGGGTATCCCTGATATGAGGCCCCAAGACCCCTATTTCTTATCGATCATAGTACTCA
TCATATTAGAATTGTTTATTAATATTGGCGTTTCCACACTACCTAGTTCCCTGCCCCATG
TCCCTGGTATCTGTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 205>:

gnm_205

CCAAACTAAATTGTTTGAGCTGCTGTCATCTGGGGGTCTTTTTGTTATAGCAGCTCAGCC
TATATCCTAATATACCATGTCTCCATCAAAGGTGGGAAAATGAAAGAAAGACAAAATAGC
TTATATCATGTTTCAAGAAAAACTGGACAGAACCCTTTTCCTTGCAGAAGCAAAGACTAT
CTCTACATCCAGCCCACTTCTCCAACTTACCTGGCCCCTGAGTTTGCAATCCCTGAGCAC
TGAGATGGGAACATATAGATGGGTCTCAGGTACACACCTGCAGGCTGGGGATGGTGAAGG
CAACATTCCGGGAATTCAGATAGGCCAGGACTCTGTGGGACAGGTCATCCGTCCACACGT
GGGAGCTTCAGTTGAAGACAGACAGGAAAAGATCACAATGACAGATTCTCCTACAAGCAC
TACTGTACTAGCTAAGTGCCCAGGGGACAGGTAGGGATGGACCAGGGGTGTTAGGACTTT
GTACTTGGAAGTGGGAGGTTTCTCTTTTCTTTTCTTTCCTTTTTTCTTTTCTCTTTTTTT
GAAACAGGGTCTTGCTCTGTTGCGCGATCACGGCTCACTGCAGCCTCAATCTCCCCAGCC
CAAGTGATCTTCCAACCTCAGCCACCCAAGCAGCTGGGATCACAGGTGCATGCCACAACA
CCCAGCTAATTTTTTGTAGAGATGGGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACTC
CTGGGCTCAAGCAATCCTCCCACCTCTGGCTCCCAAAGTGCTGGGATTACAGGAGTGAAC
TGCTGCACCCAGCCTGAAGTAAAAAATTTCTTAACCAGGCACAGTGATAGGATAGTTTCC
AATTCTAGGAATCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 206>:

GNMCJ23R gnm_206

AACTCTACAAAAAAATACAAAAATTAGCCAAATATGGTGGCACATGCCTGTAGTCCTAGC
TACTTGGGAAACTGAGGCAGGAGGATCACTTGAACCTGGGAGTTCAAGGTGGCAGTGAGT
TATGATGGAGTCACTGCATTTCAGCCTGGGTGACAGAGTGAGACTCTATCTCTAAACCAA

ATTTTAAAAAAGTATCTATATGTAATATAAAAACCACAAGTGGGCCGGGCACAGTGGCTC
ACGCCAGTAATCTTAGCACTTTAGGAGGCCGAGATGGGTGGATTACTTGAGGTTAGGAGT
TCGAAACCAGCCTGGCCAACCTAAAAAAATTTTTAAAAAATACAAAAAAAAAACCCCAAA
AAAACCCACTAAAAATACAAAAAAAAAAAAAAATTAGCCGTGCATGGTGGGGGGTGCCTG
TAATCCTAGCTACTCGGGAGGCTGACGCAGGAGAACTGCTTGAACCTGGAAGGCGGAGGT
TGCAGTGAGCTGAGATTACACCACTGTACTACAGCCTAGGTGACAGAGTGAGACTGTCTC
AAAAAAAAAACAAAAAAAAAAAACACAAGTGAGCTCATACTATACATGCTGTCCTGTTTA
TATATATAGCTAAGATATATATATGTATAAAACTATATATATAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 207>:

GNMCJ23F gnm_207

CCAGCCAACAGAGAAAAGCTGGGACAAGAGACAAATGACATCATTTGCACCCCTAGATCG
AGCCATGCCTGAAGTCCCTCTCTGAACTTTCCAGTTACCTGAACAAAAAATTCCCTTTTA
TTGCATAAGCCAGTTTCAGTTTCAGTTCTGTTGCTTTCAACCAAATATCAACCTGATATA
ATTGGCTTCATGTTTGTCTATTCCCTCTCCCACCATGAGATTATAAGGTCTTATAAATTA
ATAGGAATTTCTAAATCTTCAGATAGAAAATTTAGCTATCTGAGAACTAGCACACAGCAA
GTACTCAATGAACTTTTTTTTTTTTTTGAATGAACGAAGACAATAAGAGCAAAAAAAGGT
AGAGGGAAATAAAGAAGGAGAGAAGGAGAGAAACAATGTCCAGATCATGTTTGAAAAGCA
GGGCCACCCTGCAGGCCCAAAAGCTCACACATGCCAGGAGAAACGCCTACTGCTCCCCTC
AACTCTGATTCCCCTGGAGCCTGGCACAGCCGCAAAGCCAGGCCAGATGGGACCTGCCTC
ACTGACACTCATTCAGGCTTGGGTTGCTTTGGCTTGGTTTTTAGATAACAGGAAAAGCGA
GAAGGTCTGTCTCAAATGTCTGTGTGATACTCAGAATTGAAATCCTGGATCTCAAGGGCT
TAACTCTCTAAGGCATCCTCCACTCTGCCTCTGGTTCCTGAAGAAACCCAGTGGGGAGAG
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 208>:

gnm_208

CATGACAACTCACCAGCCTGTATTCCACCCGAATGTAAGCTTCTGTGGGCAGGAGGCTCA
TCTGTCTTGTTCGCTGCCATGTTGCTACTGCCAAGCAGTCCCCAGTAGGCTGGTCATGGC
TGGTGTCCACGAACATATTTGTGCAGCATATGGGTGAACATACACACGTCCTTTCTGAAA
CAAAATTGAACTCAGTAGGACACTCACTCAGGCAAAGATTGGGAAGCTTTAGATCCATTC
TGGAGGAGGGGGAGATAGAATCAGAATATATTCATTTAACAAACATTTATGGGGAACCTA
CTTTTTTGGCAGACCTCATGCTACAGAAACAACAGTACACAAAGCCCTGCTTTCATGAAG
CTTACAGTCTACCGGGGACTGGGAGAGGCGGACCATAAACACACACATGCACACATATAC
ATGTTCACATCCACACACCCCTGTATCAGATAGTGATAAATATTATGGAGCAAAGAAATC
TGGAGGAAAGGATCGAGAGCTCCAGATGGTGATGGTAGGGATAGGGGTGGTGCAGAACAA
GCTTTAATAAAACATTAGGTGGTCAGTAAAGGCTCTGCCCTCAAGAGGGATACAATCGCT
TCTTAAAGGTCCCACCTCTCAATGCTCCCACTTTTGGGATTCAGTTTCAACATGAGTTTT
GGGGGGTCATTTGAATCAAAGCACATGGTGTCCTACCATCAGCTCTAAGTTTACAGCCTA
ACACTTCCGCAATAACAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GATCTTTCCTAGTTACTTCAGCAAAAGTCCCCAGGTTAGGTCTGATTGGGCTTGCTTGAG
GCAGGTGCCCATTTCTGATCTGACCACTGTGGCCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 209>:

GNMCJ24F gnm_209

CCGCTTCTCTTCTTACTATTTCAAGATGGCTGCCCAATTCATGTGCAGAGGAAAGAGAAG

TTCTTTCTCTTTACTCTGACAGTTGAATAAAAAATCCAAAGCCTGGCTCTCTTTGGTCCA
TCCCTGAATCAGTCATTATGGCCTGGGGAATGGAGTATGCTAATTGACTTAAGGGAATCA
GGGCCCAGCACTGGAGTGAAGGTGGGGCTAATGCCACCTAATCCACTGGAGAGTACCAAA
AGTGTGCTTCCCCAAAGGAAATTCACAATACTGTGGGAAAGGATGAATTGATGCTGAGTC
ACTATGAATGACAAATGCAAAAGATAAACATACCAGGCCCCACTCCTTGCAGGAAGCAAA
AGATCCTAGAGGGAGAGGCTGACATGGAACAGGATGTCTGACCAATAAAACTTCTTCCAA
TGAGGATTCACAGACATAGTCATACCTTCCAGGTTAAGTAAGGCTCAATTCCAGGCAGCT
GTCTGTCTCAGCTCCTCATGCACATCCGTCGCTTCTGTCTACCCAGCATTTGTTTCTCCC
TTATTCAGTTCTCATTGCTGTGTAACAAATTGACAGAAGTGCATCAACTAAAGCAACACA
AATGTATTATCTCACAGCTCTATAGGTCAAAATCCAAGCACGGCTCAACCGGATTCTCTG
CTCAGGGTCTCATGGGGCTGAAAATCAGGTGTCAGCTGGAGCTGTAGTCTTATCTAAAGC
TCAGGGGCTTCTTCCAGGATGATTGGGTTGTTTTCAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 210>:

gnm_210

ACTACAGGCATGCACTACCATGCCCAGCTAATTCTTTTAGTTCTTGTAGAAATGGGTTCT
TGCTATGTTTCCCAGGCTGATCTCAAACTCCTGGCCTCAAGCAATCCTCCCATCTCGGCC
TCCCAAAGTGCTAGGAATACAGGCATGGGCCACCATCCCTGGCCACACAATTGTTTTTTA
ATTTAGTTATAGTAGTCTGTACCACTGTAGGATGACAATAGTTAACAATAATATATAGTT
TCAAATAGCTAGAAGGAAGATACTGAACAGAAAGAAATGAGAAATGTTTGAGATGGTAGA
CATGCTAATTACCCTGACTGATCACCATACATTATACACATCAAAACATCTTTATGTACC
CCATAAATATGTACAATTATTATATGTCAATTTTTTTTTTTTTTTTGAGATGGAGTCTC
ACTCTGTCACCCAGGCTGGAGTGTAGTGGCGCAATCTCGGCTCACTGCAACCTCCGCCTC
CCAGGTGCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATAACAGGCATGCGC
CACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCGCCATGTTGGTCAG
GCTGGTCTGGAACTCCTGACCTCTGGTGATCAGCCCACTTCAGCCTCCCmAAGTGCTGGG
GATGCCGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 211>:

gnm_211

ATACCTCTCCAACCCCATGTCCTACTGTTATATCCTCTTCGTGCAATTTACTGAAGAACA
TGCAAATTATGCTCCTAATATCAAAGCCTTTGCACTGTCATTTTCTTTTCTTTCTGGAAC
TTTCTTTCTCCAGATATTCCCGTGGTTCATTCCTTCACttCCtgaGGTCTCTGCTTAAAT
GTCACCTCCTCAGGTCTTCCCTGACCAAACTGTCTATAATAGTACCTGCTCCTTCTTTGG
CTCCTTTTTCCTACCCTGTTGTATTTTTCTCCATGGCACTCATCACTCCCTGACATAATA
TAGTTATTTGATTATCTATTTTCTGCCTGGTTCATTCCAACACACCAGCAGGGAGTTAGT
TTTGTAAACTGCTGTATTCTCAGAGCATAGAATAATGCCTGGCTCACAGCACTACTCAAC
AAATATTTGAAGAATGAAAGCATGAAATAATTACACAAACATAAATATGTATTATAGCTG
TGCTTGGTGCTATAAAAGAGAAGTATTGGCCTTTTCTTCTGGCTAATTGCTTTGGCCTGG
TCAGAGAATTCAGGGAAGGCTTCATTGAAGACTTGAAATTTACAATGAATTGATCTTAGC
CGGGCAAAGAGGAAGGGGAAGAATCCTCTGGGCCGAGGAACAGCCTGTGAGAGGGTCTTA
ATCTGGGGAGGATAGCACCTTGGAGGGACAGACAGATGGCCCGGGCAGGAACCTTGGGGA
ATGAGGGGCAAAGAGGAGGGTGATACAGCCACTGGAAAAGCTTTGGGCTTTATCTTGAGG
GTAATGGGGAGAGGCGGAGGGTGACATGAGTTTATTGAGATGGTGTTTTTCAAAACAGCA
TCTGTTTGAAAACAGCAATCTGGTTTCTTTGCTTATTaATAAACTTGTATACAGAGCTGA
CTTTGTGTCAGCCCTGTTTGAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 212>:

gnm_212

CTAAAATAAAGCCTGTTTTATAATAAAGTGTTGAATATCTCACATAATTCATTGAACATT
GTACTGAAGGGGCAAACCAGAATGGTTGTATGGGTACTTGAAGTACAGTTTCTACTGAAT
GCACATTGTTTTTGCACCATTGTAAAGCTGAAAAATTGTAGATTTAACCAATGTAAGTTG
GAGACCATCTGTGTTTTGTTCCTCCTTAAkGCATACAAAAGTGTAGCCAAAGAGTGTTTC
AAAGCTGGATTACATAATGAATTATTATTATTTTTTTTTGAGATGAAGTCTCGCTTTGTT
GCCCAGGCTGGAATACAGTGGCGTGAGCTCGCCTGACTGCAACCTCCGTCTCCTGGGTTC
AAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCCTGGAATTAC
AGGCACACGTCACCACACCCAGCTAATTTTTGTATTTCTAGTAGAGACAGGGTTTCGTCA
TGTTGGTCAGGCTGGTCTCAAACTCCTGACCTCAAATGATCTACCCGCCTTGGCCTCCCA
AAGTGCTGGGTTTACAGGTGTGAGCCACTGCACCTGGCTGAAAATCCAGATTTTTGTCCA
AGATTGCAGAATAAATTGCCTGGGACAAGTCAATGAGTGAGGAGAGATAAGTCAATGGAC
TGAGAAGGGGTAAACTCAGTCTTGCATAAACAGAATACAGAGGGGATTTGGGTGGATGGG
GAGCAGTGAGTGAATGGGCAAAGATAGGACAAAACCAAGCCCACTTAAAGAACAATAATA
TTACAAAGGACAAAGTTGAGAATAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 213>:

gnm_213

TAATGTTTTTCTTCTTTTCAAAGATGTAATATTTCTGTTAACACTATAGAAAGATAAGAA
AGATAAGAACCTTCAGGGCTCTTTGAAGACAAAATTGTATTCTGAATTGGGCATTCATTA
GACTGAGCGGATAAATCTCTAAATCTGGGTTTTATGATTTTAGGTTTGTTTGTTTAATGG
ATTTCTTTGCTTAAACTTCAGGTGCATGCATGATAATTTTGAAGAGCAGAGAGATGGACA
AATGTGATTTGATTTATAAGTCTTTTCAAAGGCATTTGAAAATGTATTTCAGGTTTAGTT
AAGCTTATTTTTCACACTCTTAGTTGAAGGCAGGAGTGATTGTTTTCCTCCCTCCACACC
TCGAAAGATGGAATGGTTTTTCACTTATAAATTTTTCCATCTCAGAAAAGGAGGAGCAGA
GGTTTTCCAGAAGGGTTAAGAATAAAGGTGGGGAAGGCAAGCCCTTGTTACCATAAGAGC
AGGAATCCATACGGAAGAGTGGCTGGTTTAGATTTGCTGGCTTGAGAGTGGATTATTTTA
TCCAACTCTTGATCAGTGTTGTGAGAATTAAGTAAGATAATGGATTTAAGGGGCTTAGAA
GTGTCCAATCAATGTTAGCTACTGTTGTTATTCTCAGTACTACCTGTAGGCTTGATGGAT
ATATTTGGAGACATTTGTACCAAGGGTTATGGGGCAATAAGTGCGTGGTTCCCATTTGGC
CCAGTGAACTTTTCAGGACTTAGGATGAGGAAGGCGGGAAAAGCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 214>:

GNMCJ29F gnm_214

CCGGCGCGATCACAGCTCGTTGCAGCCTCGGGCTCCTACAGCTTATGCAATCCTCTCACC
TCAGCCTCCCAAACCCACACCACCAAGCCCAGCTAATTTTTTGTATTTTTGGTAAATACG
AGGTCTCACTTTGTTGCCCAGACTGGTCTTGAACCCCCGGCCCAAGTGATCCTCCCACCT
TGGCCTCCCAAAGTGTGTCTCCCCACCTACACTCCCATTCTTTCCCTTAAAAAAAGTCTG
AGTCTGGGTGCAGTGGCTCACACCTGTAATGCCAGAGCTTTGGGAGGCTGAGGCAGGAGG
ATACCTTGAAGCCAGGAGTTTGAGACCAGCCCAGGCAACACAGCCAGACTCCGTCTCTAC
AAATAACACTTTTAAAAAACTTACCCAGGATACCCAAAGGACTATAAATCATGCTGTTTT
AAAGACACATGCACACATATGTTTATTGCGGCATTATTCACAATAGCAAAGACTTGGAAC
CAACCCAAATGTCCAACAATGATAGACTGGATTAAGAAAATGTGGCACATATATGCCATG
GAATACTATGCAGCCATAAAAAATGATGAGTTCACATCCTTTGTAGGGACATGGATGAAA
TTGGAAATCATCATTCTCAGTAAACTATCGCAAGAACAAAAAACCAAACACTGCATATTC
TCACTCATAGGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGGGGACATCACA
CTCTGGGGGCTGTTGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 215>:

gnm_215

GTACCCTTCTTTAAAATCTTCAAATATCTAATCAGGGGTTCAAATTTCCTCAATTGTCTC
ACAATTTTTTGGGTTTTTTTGAGACAGGATCTTGTTCTGTCACTCAGGCTGGAGTGCTGT
GGCATGATCATAGCTCACTGCAGCCTTGAATTCTGGAGCTCAAGAGATCCTCCCATCTCA
GCCTCCTGAGTGGCTAGGACTACAGGTGTGCATCACCACGCCAGGCTAAATTTTAAATGT
TTTTATAGAGATGGAGTCATGCTGTGTTGCCCAGGCTGGTCTCAAACTCCTGGCCTCAAA
CAATCCTCCGCCTTGGCCTCCCAAAACACTGGGATTAGGTGTGAGCCACTGTGCCTGGCC
TAATTTTTTATTTTATTTTATGGTATTTTTTGTTTGTTTGCTTTGTTTCTTTCTTTTTTT
TTTTTTTTTTGGAGACAGAGTTTCACTCTTGTCATCCAGGTTGGAGTGCAATGGGATGAT
CTCGGGGsACTGCAACCTCTGCCTCCCGGGTTCAAGAGATTCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGATTATTAGCATGCGCCACCATGCCCAGCTAAGTTTTTGTATCTTwAGTAG
AGATGGGTTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCTGC
CCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCCAGACATGAC
GTGTTTGAATCAGGATCCAAATAAAGTCTAGATTCTACAAGTGATCAATCTTTTGTTTTT
GAGTTAATAGGGTCTCTTTCTCTCTCTCTCTGTAATATATTGGCTAAAGAGACTAGGTTG
TTTGTTTTGGGGAGTTTCCACAGTCTTGAATTCTCTGGCTGCACCTAGTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 216>:

gnm_216

CCAGTCTGGAGTGCAATGGCGTGATCTCGGCCCACTAAAACCCCCACCTCCTGAATCTAA
GCAATTCTCCTGTCTCAGCCTCCTGAGTAGCTGGGACTACAGGCTCACACCACCATGCCC
GGCTAATTTTTGTATTTTTAGTAGGGACGAGGTTTTGCCATATTGGTCAGGCTGGTCTCA
AAGTCCTGGCCTCCGGTGATCCACCAGCCTCAGCCTCCCAAAATGCTGGGATTAGAGGCA
TGAGTCACCATGCCCAGCCTAAACTTGGCAAGATAATAAATCACCTTTTTAAGTGTCGTT
GGGCACTTGTCTGGTTGTTTTTCTTTAGGTTACCATGCCAGCAATGATTCCTTTTGAGTT
TCTGACAGAAGATAGTGGTTTTCATCCAAATAAGTCAACTACTCTACCCCATCCCTAAGC
CACTTGTATGGAAAGAAAAAGAGGAAGAAGCCAGTACTGTGACTGCGTAAGCGTCCCCCA
GCATCACCGGCTATGAGATGTGTGGCAGCTGAGACCCGGGAACTGCTCAAGGGCACCAGG
CCCCATCTGTCTGCACTCACTCACCTTCCTCAGGTACTCGCATGGGCATGTCACTGACTT
TACATGCTGCTGCAGCTCCTTGGTGAGCTGGCCCTGGTCATGGGACAGGAACTGTGGGGT
CAGGACAATAGAGAGCTTCACCATTTGCAGAATGAGCACAGGGGCTCATGATGAGTGCCA
ACCTATTAGATAATTTAAAAAAAAAAGTGTTGAATGAGTGGAAAAACAAGGTGATGTTTG
AGTCTATAGTGGTCAAGGGCTTCAGAAAAGGACAGACCCAAGTTCAAATCCCTGTACTTT
GAATTTCTACTTCATGCCATGCAAAATTACTTTACCCCTTTTAACCTCAGTTTTCTTCTG
TGTGAAACAGGAACAATAGTTTCATTCGTCATTCAGTTTCTCTCAAGATTTCACGAGATC
ATACCTATAAAACATCCAAGTCATTTAAATGTATCATCATTTCTGTCATAATTAGTGGGA
TCCATTTCACTATTATTGGATATACAGTTCTGTGCCTGAAACCTACAAAAAAACAAAATG
TTAAGTCTAAAAAGCATTAGTGATTTCTCATTTTTATATTACTAATTATAACCCTATTTA
ATCACACAAGGCCTTGTCCGCGGCAGGTGCTCAATAAACACTTGTCGAATCAATGCATGT
GGGCTCCGGAGCCACACTGTTTAGATTCTATTCTGCCTCCACCACTTATCAGCTGTGTGA
TCTGGGTAAGATAATTCACCTCTTTATGTCTGCACTTCCCTCTCCATAAACTATATATAA
TGAGAATCCTTAGCTCATTCGGTTGTGGTGAGGGGTGAATGATTTGGCACACAGGAGGGG
CTTGTTAAACATTAGCTGTGATGATCTCCTTCCAAATCTTCATTTTCAGAGCCACAGATG
AGGCCATAGTGCAACCAGGTGACCTTAGAGTGTAAGTACACATGATCGCCAGCTATGCTC
TATCTCCACCATAGGTCCAAGACTGGGTAGTTCTGGCCTGGAGGTTTCTGCTGCATCTGC
CTTCTCAGTGTTCACCTAAGGACTTTTGTATTTTCCTCCTCGCATCCCCACAGATGGGGT
TCAGGCTGCCGGACACAGCTGGGTGATGCCAGGGCAGTGGTCACCTGTGCCAGCCCCGTG
AGGTAGCTGGAGGATCATTGTTCCTTCCTTCTCGGGCTCTGGGCAGATGCCAGGGCTGGG

GTGACCCATGCCCTCAAGTTTCTTGCTTTGGTGGGCCACATTTTCCCTTGGCAAAGAGGG
TAAAGGTCACAGGATGCCGGAGAGCTGTGACTTCTCTGTGCCCTGGGCCCAAACTATGAA
GACCTGACACACTATGCTAAAAGTCCAACGCTGGGTGCTCCCCAGAGCTTCTTGCCTCAC
CGCTTCTGCTGAGGGAGGAATGAATACTATGTCCTCCCAGAGCTTTGGGAGCTTGTAGCA
AGCAGCCTCCCCAGCGCAAAATCTCTTGGAAACCTCTAACTGTGTCTGAAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 217>:

GNMCJ31F gnm_217

CCACAAATATAACTTTAGCAAATATTTAGCATAACTATCAAAATTACAAATCATATTAAA
TTTGTATAAATGTATGCAATTTTCGGAACACGCATATCAACAACATACCCATAAATATAA
CTGAGATGAGATCTAATGTCACCTCACTTGACAGTGCCCTCCCATGCAGTATCGCCACAT
TTGACAATGCCTGCCCATTTAATCTACCAAATAAATCGAATCACTTAATACCTCTACAAG
ATGAGAGATACATTCTTTAGACTCCCCAAGGGATGCAGCTGAAAAAAATCCCAAAGTTAG
TTTTAAGCCAAAAAGACTTGATTTAGGATTTTGACACTGGAGAAACCCATCAAAGATGTC
AAGTTTGAAAACACTTGATCAAAACAGAATCACAGGTCACTATTAAAAGAGTATTAATTT
AACCAGAGACTTCCAAAGCAATACAGAAACTTACATGGATATAAAAACCCTAACCCTTTT
AAAGGTCAGATTTGCTAAGTGATCAAAAGGGGTACTTGAATTGAATCGACACAGGAAGAG
TGTGTACAGGGTTATGAGTGTAGGCAGGTGGTTACTTTGGTCATATCTCCATTTGCCACC
TGATTACACATGAGAATGGCATCTTTACTCACCAGAAAGCCAGTATTATAGGAGGTGTAG
GAGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 218>:

GNMCJ32R gnm_218

GTACCATTATGTTCCTTAAAACAAATGACTCCCCTGTCTACTAGGCATTGTTCTAGAGTG
CTCATTGGGGGGTGGTTTGAAGACAGTGCATGCTGCTAGCTGCAGGTACTTTATTGCTGG
TGCTTTCTAGCCCATCCTGGTTTATTCTGGGATGCCTGGTGTTCAGAACCTGGCAGGTGC
ACATGTGAATAGGAGACACAGGGAGTTCTCAACTGGTCAGCAGCTTCCTAAAGCACAGGA
AGTAAAACTCCAGCCCTGCCACCAATGTCTTTGCCTCTCATCTGCCTCATGGGGTGTAGA
GAATCATCTGGAGTGTGAGAGTGGGGCTCTGGAATTACCTTGACACTGGTTCAAATCCAG
GCACTGCCACTTAGCAATGGTCTAGTCCTAGGTAACTCACATAGCCTGTTAAGCCTCCAT
TTCCCCATCTGTAAAATGGGATTGTGGAATGCCTTCCTGATAGGGCCTCACAGTGTTGGG
CACACGCTGAGTGTGCATCAGTGCTAACGATCATTCTCTTCTTGCAGGCTCTGTTCCTGT
ATGAGCTTCTGTTAAAGACCACCAGAAGGCCTGAGGAGCTTTTGAGGTAGGAAAATGTAA
CTCGGCCTGGGTGCTGAACAGGCCTTTCAGAGCCTTCTGCCAGAGCAGCCTACTTTTCCA
GGTGGGAGAGTTAGGCAGTCACATCTGTAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 219>:

GNMCJ32F gnm_219

CCGGGCAACTCTTCCTGCTCGAACATGTAGGTCTTCCTCAAAGCAGGTCTAGCTTCCATC
CATTTGCTCAGTTATTGGCTTGCCCACCTGGGCAGGTCTTTTAATATAGTTCAGTGGTTT
GTACCAGCAAACTGATTAGAAATGCAAAGTATTAGGCCTCACCCCTTACCTACTATATGT
AAAACTCTGGGAGTGGGGCCCCCAATTTGTGTTTTTACAGCCTTCCACACAATGCTGATG
CAAGCTCAACTTTGAGAATCACTAACAGAATTAACAGTCCAAGGGAATGAGAGAGCTTCA
TTAAAACTTTGCATATTCCTGTAATGATCTTGAAGGATTATACACCAAGCACTCTATGCT
TCCTGGTTTTCTGGGAGATAATTTACTCTTTGGAAATTCTTCATTCTGGTCTGAAACACA
AGGCCAGAGTTGAGAAGGTGCTTTTTAATATCCATTACAGGAGTCTGTAAGCCAGCGGTT

CACACCAAAAGTTCAAATGCTGTAAGGCCTGTGTTTACTAGCTTAGACACTGAAAAATCA
GTCACTGGCTGGGTGAAGTGGCTCATGCCTGTCATCCCAGCACTTTGAGAGGCTGAGGCA
GGAGGATCACTTGAGCCCAGGAATTTGAGACCAGCCTGGGCAACATATCAAGACCCTATC
TCTGCAAAAAATAAATAAATTAGCCAGGCATGGTGGTGTGTGCCTTTAGTTCCAGCTACT
C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 220>:

gnm_220

CCTGACCCCATCAGCAGAGCCTAGGTCACAAGCCTCTAAATTCCAAGGCCCATCACCTGT
TTCCCTGTGTGATTTGAAATGGGGTCAAGCTCCCATTTCTCCTTGAAGAACTGAGCACCT
ACTTTGAATATCTCATCAGGAAGGCATTTTATTGCTGATGGCTGGAAATATGGCATCAAA
TCCTTGTCAAGCATCCGGAGCTCTGCCTTAGTTAATCCAGCTGGGGAGAAAAAGGAATCA
CGGGGGTTTAGTTCAAGCCATCAGAACTCCGCTTGTTTTATTAATGGTGCTGCATAATGT
TCAGATCTGAGTGTTCTAGGCAGGCATCATTCCTTACAAAAGGCCCTGGAAATCACACTG
GGGAATCAAGTTCCTTCATCAACTCAGAAAAAAAAAATGTGGGTCACATTAGCCCTGATT
GGCCTCCTACAGTGAAACGCATGCCCAGAAGGAACTTCAATTTACACACTTTCAAATTTT
GTATAAACCTACTTAGGGGCCAATTAAATCACATTCTAAACTAGCGGTTTTCCAAACTTT
AGTGTACACAAGAATCTCCAAAAGAGCTTGTTTTAAAAGCAGATTTGCAGACCCACCCTC
TGCAACTTCAAATCATGAAATGTAGGTTCTACTGTAACGCCACTGATGTTTGCTACACAT
GGCCAAGGATAATGTTTTATTTTGTGTCCCCACATTTAAGTTTGGAAAGAGAGAGAAAGG
TATGCTCAGGGTGAGTCTTACCTGCAATGGTCCCAAGCTCCTGCAAGACAGAACTGGTCC
ACTCAGTGGGATCCCCAAACACAACTTCAGCCTTCCTCTTAAACTCGGCTAAGACATGTG
TGCTGCAGAGCAGGGTCCCAATTCTGGCCACTACCACCCTGGTAGTGGTTAAAGAGGGAG
GGATATAATATGAGCTTGGACTCTTCAGCCAAAAACAAACAAACACACACACACACACAC
ACACATACACACACACACTGCACAGTAGGCTCAGCAGGGACAGCAGATCCAGCTTATCCC
ATTAGCCCAGTGGGATTTTAGCCCAGAAAGGTGCCAAGTGTCAGGAGGTGGAATATCTGG
ATGGATGGATGGATAGATGGATGGATGGATGGATGGATGGATGAATTAACCCATTT
GCCATTTTGCACATTCATATTTTAGTTACCTGAATTCTGAGATCTTTATAAGTGGGATTT
CAGTGATGTTTATAGCACACAGGGTTGCACCAAGTCCTACCAAATGAAAGCTCTTCAGGT
CCTGGATACTGTATCCTGAATCATCCAGGTACCCTTGCAAAATGGATTCAGCCTAAAAAA
TAGTAAGAATAAAAGATAAACCATCCAGGGATGATCCAGGGTCCCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 221>:

gnm_221

CCGGAATCTGTCTCTTATCATGTTTTTGAACTTTGCTTTTCTTTGTGTTGGCTTCATTGA
GAGACAGGCTCTATGCCTGCATGTGGTAGGTTCCAGCAGATCCTTGTGTATATCCTTCTA
AGTTCAAGTCCAGAGTAAAGAAAGCTCTTCCCCTAATGCTCCACTCAAAGTTCTGGTTGA
CTCTGGTTAAATCACATGTCCAATCCAGAACCAGTGACTGCAGCTAGGCTAAGGTATGAA
TTGAAATTCATCACTCCTGGAACTTGGTGCAGTTAGCTTTGACTGAACCACATGAAGCAG
GAATACAAGAGAGGTGGTTCTCCAGAGGAAGTTATGAATGATGAATAGCCACTGTGCTAG
AATTATGGAGACTTATGTGTCAGCCGCCTTAAATCAAGGCTTAGTTTAAAATAGTTTAAC
ACCAAAGCATTTTGTGTGCTACTCTTGGAATTGAAGAGTAAACATTGGAATTGAAGGGGT
GAACATATTTCTGTAGGACCACAGAGGAAGAAAAAATCATTAAGGGGTAAACATATTTCT
GTAGGACCATAGAGGAAGAAAAAATCATTCTGGCTGAAACCTCATGAAGAAGGTGACATT
TGAGTTGAACCAAAGAAAAAAAAAAAAGAATGTCTGCACTTGGAAGTGCAGAAGGGCATT
TCAGATGAAAGGACTGGTTTGAACAAAGGCAAAGAGACAGGAAATTATAAGGTTTTGTTG
GAGGTTGTGGAAAGGCTGGGTGCGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGC
CGAGGTGGGTGGATCACTTGAGGTCAGGAGTTTGATACCAGCCTGGGCAACATGGTGAAC
CCCGTCTCTACAAAAAATACAAAAAGCCAGATGTGGTGATGTGCACCTGTAATTCTAGCT
ACTTGGGTGGCTAAAGCACGAGAATTGCTTGAACCTGGGGAGGTGGAGGTTGCAGCGAGC

TGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCCGTCTCCAAAAAACGAAAAA
AAAAAAAAAAAGGGAGAAGAAACGTTGTGGAAAAAGATGCTGGAAAAGTTTGGATCCTGA
TGCAGAAGAAGTTGTATGTCCAAACTGTCTGAGGGTCATAAGAGTGACTGAAGGAAATAA
GCAGCAGACACACAGGACACAAGTGCCTTTAATATTGGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 222>:

GNMCJ35R gnm_222

CGAAGCCGATATATGCCACCATATAAGCGAAAAAGAGTCCGGGATTTTTTGCTCGCCAGA
CATACACCGGTTCCGGGCATTTTTAACCCGTTTATCAATCGCGCCTGCGCGCCACCTTTC
CATGCTTCGCGGAAACAAAATATCGGGATAAGGAAAAAAACGGCAACGACAAAAAACTGC
TGTACATCCATAACTACTTTCCTTGTTTCTTTTGTAATTCAAGTAACTGTTCGGGTGTGA
CGGCGGGATACCCCTGCGCATCTTCCGGTACCTGGTGCATAGCCGGAATAGGGACCAGCG
GCCCTAAAAAACGCGGTTCACGTTTAAAAATATAAAGGTCAGCCAGCGCACCGAAACGGG
CGGCAAATTCACGAATACGTACTGACAGCATATCTTTCGGTGACGGTACGGCATAACACT
GAGCCTGAATCCCCATATGCAGCGCAATAAATAATGCTCGCTCACAGTGGAAACGTTGGG
TGATAATAATGAAATCATTAGTATCGAAAACTTTGCGTGTACGACGATGGAATCCAGCGT
ACGAAAGCCTGCGTAATCGAGAACAATATCTGATGGGTCGACACCAGCAGCGATTAAATC
TTTGCGCATGGTCATCGGCTCATTATAACTTTGCAATGCGTTATCGCCGCTCAGTAATAG
ATAATTTACCTTACCGCTGTTATAGGCATTAATCGCTCCTTGAATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 223>:

GNMCJ35F gnm_223

CCGATGTATGTTTCACGCGTTGCATAATTAATGAGATTCAGATCACATATAAAGCCACAA
CGGGTTCGTAAACTGTTATCCCATTACATGATTATGAGGCAACGCCATGCATCCACGTTT
TCAAACCGCTTTTGCCCAACTTGCGGATAACTTGCAATCTGCACTGGAACCTATTCTGGC
AGACAAGTACTTCCCCGCTTTGTTGACCGGGGAGCAAGTCTCATCGCTGAAGAGCGCAAC
GGGGCTGGACGAAGACGCGCTGGCATTCGCACTACTTCCGCTGGCGGCGGCCTGTGCGCG
TACGCCATTGTCGAATTTTAATGTTGGCGCAATTGCCGCGGTGTGAGCGGAACCTGGTAT
TTCGGTGCCAATATGGAATTTATTGGTGCGACAATGCAGCAAACCGTTCATGCCGAACAA
AGCGCGATCAGCCACGCCTGGTTGAGTGGTGAAAAAGCGCTTGCAGCCATCACCGTTAAC
TACACGCCTTGTGGTCACTGCCGTCAGTTTATGAATGAACTGAACAGCGGTCTGGATCTG
CGTATTCATCTGCCGGGCCGCGAGACACGCGCTGCGTGACTATCTGCCAGATGCCTTTGG
GCCGAAAGATCTGGAGATTAAAACGCTGCTGATGGACGAACAGGATCACGGCTATGCGCT
GACGGGTGATGCGCTTTCTCAGGCAGCGATTGCGGCGGCAAACCGTTCGCACATGCCTTA
CAGTAAGTCGCCAAGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 224>:

GNMCJ38R gnm_224

CTGATAAAGACATAGCTGAGCCTGAGGAAGAAAAAGAGATGTTTTTGTTTGTTTGTTTGA
GATGGTGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCA
ACCTCCACCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGATTAGCTGGGATTA
CAGGCACGTGCCACCATGCCCGGCTAATTAAAAATATTTATAGTAGAGATGGGGTTTCAC
TGTGTTAGCCAGGATGGTCTCAATCTCCTGACCTCATGATCCATCCACCTCGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACTGCACCTGGCCAAAAAAGAGGTTTAATTGGAC
TTACAGTTCCACATGGCTGGGGAGCCCTCAGAATCATGGCGGGAGGTGAAAGGCACTTCT
TACATGGTGGCGGCAAGAGAAAATGAGGAAGATGTAAAAGTGGAAACCCCTGATAAAACC

ATCAGATCTCGTGAGACTTATTCACTATCATGAGAACAGTATGGGGGGAACCTACCCTAT
GATTCAAATTATCTCCCACCAGTCCCCCCCCCCAACAACATGTGGGACTTACAGGAGTACA
ATTCAAGATGAGATTTGGGGCCAGGCGTGGTGGCTCATGCCTGTAATTCCAGCACTTTTG
GAAGCTGAGGCCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 225>:

gnm_225

AAAAAATTAGCCAGGCGTGGTGGCAGGTGCCTGTAATCCCAGCTACTTGGGAGGTTGAGG
CAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCATGCCACTAC
ACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAAAAAACAAACAAACAAAAAACAAC
AAAAAATTCAACCTGGGAGGTACAAATTCAATAGGTTTGTGACAGGGCTTTGGAATCCAC
ATATTATAAAAACTCTTCAAGTGATTCCAATGTCAGCCAGAACTAGTGACCAACAATAAT
TCACATCCCATGGAGCTCCACATGGGCACTCCTGTGAGTGCAAAGCACCTTCCGGTCTCT
GGACACACTGAACTCAACCATGAACAGAAATACGGACTAATGTACAGCTGGTATTTGAGT
TAATTATGCCAATCATGGAAAAAAACAGACACAGCTTCTCACCAAAGGGTGTAACTTCCA
ACTTCTCCTAAATAGCGCTGTTCTAAAGCTAGGCACGCCCATGTGGGCAGACTGAATTCA
ACCTTCTTTCCCATGACCAACACTCTCCTGACCTCTAGGAAGCCACAAAATCGTTGCAGA
GAAGGAAAAGCCTTCTATATTCTTTCCCCCACCAAAAAAAAAAAAGAAGAAGAAGAAGAAA
AGTCAAAGCCTAAAGTTTTTAAAATTCTAGATTAATAAGTTGGTTTGGGCTAGTTACAAC
TCAACCCTTGGAAAGAATAAAGGAAATACTGTTAATTACCCCATATGAGATTTTAATAGA
GAAAGGCTTAAGGGAAGACCACCACCTAGTGACCAAAGGCAGGATGACATTTTCAGAGCA
CCTAGCTGGGCTGGCAGGCAGCAATCTGTTTTCTCTCCAAGTGTACTGAGAAGGGAACGT
GGGCCAGGCACAGTTGTTCACACCTGTAATCCCAACGCTTTGCGGGGCAGGAGGCGGGCA
GATCACTTGCGGTCAGGAGTTCACAACCAGTCTGGCCAACATGGTGAAACCCCGCCTCTT
CTAAAAACACAAAAATTAGCCAGGCATGGTAATCTGTGGTCCCAGCTACTCGTAAGAAGT
AATGCTATAAAGTGTACAAGTGGTAAAATGCAGAAATTAAACAGTTATGCTTTTCCATTA
GCCACGCCCTCACAGACAGCATCTGGCTTACAAAAACAAACACTGAAAGTTACAACAACA
AAAGTGAAACATACTTCACCAAACCCAAATTCAAAGCCTTGGAAATAGACCAATTATGCT
AAGTGCTAAATGACATGGCAGCAAATTACTCATATAAGGAATCGTTTTCAAGTTTGCTAA
ACTATTTTAATTCTTTCAATCTAAAGCCTTAACAAAGATGAGCAGCACTAGCTGTTTCCA
CCCTTTGATTATGATAAACTTCATCTCCACTTTCATTAATAAACTGCTAACCATATTAAA
CAATCCTTCCGTGGAATCTGTCCCACCACAAGTTTGATTTGCTGTTTCTTCAGCATCTTC
AATATCTGCCGGGATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 226>:

GNMCJ39R gnm_226

GGGCTTGGCTGATCCATGGAGATATCTGCAGCTTGCCAGCAGCTGAAGTCTTTATTTGCC
TTTATCTCCGTTGTGGCCTCTGATGAGCCAGACTACAGAGATGCTGATGAAATCTGGGAG
GCAATGGTGGAGGCTGTAGTTTCCCAGGAGAACTCTGGCCCTGGGGAATTCCTTCCAGTC
TCTGAGTCCCTGTGGCACATCTCCATGTGTGGCGGACTAGGTGATTGCTCCTAGTGATTC
TGCTTAGTTCCTTTATTAGAATTATAAGCTTTTTGCCATGTGACTTTGTAGTACATCTCA
ATAGGTAGAGTCTAATTCCTTGCCCTTCTAACTTTGGGCTTTGGTCATTGGAATGTGAGC
AGACACATTTTCCCCCAGCAGAAGTTTTAAATGTGCTGCATGATTTGACTTGACCTCTTG
GCAATTGCGTCTCATGTGAAGGGACATGTGGAGCAGACCTGAACTCAACCCAAACCTTGG
AGCCAAGCTGAGCTCAGCAGAACCTAGCTGAGCGCAGCCAAGCCAAACCCAGTGTAATCA
CAGCCAATCTGGAGACTCAGAAGCAAGAAACAAATATATGTGATAGGGATCTATTGGGAG
TTGAGAGCAATTTCTCTTTTTTAAAGTAATTGTGATCTTTTGAGATGGAGTCTCACTTTG
TCACCCAGGCTGGAGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 227>:

GNMCJ40R gnm_227

CAATAACTTTTTTTGTATAGCCATTCATTGTCTAGATCAATGACAGAACAACATATTTTC
TTTTTCCCTCAAAAGCCCGAGTGATCATTAAGGAAGGCGATGTAGATGTTTCAGATTCTG
ATGATGAAGATGATAGTAAGTATAAAAAGGTTTAAAGCCTGGGCACAGTAGCTTACACCC
ATAATCCCAGCATTTTGGGAGGCCAAGATGGGAGGATCACTTGAGGCCAAGAGTTTGAGA
CCAGCCTGGGCAACATAGTGAGACCTTGTCTCTGCAAAAAAACATTTTTTTTCAAATATT
TTCTTAAAAAAGGCTTAAAGTAGAACTAGGCAGGGTAGTGTGTGTCTTTAGTCACAGCTA
CCTGGGAGGCTTAAGTGGGTGGATTGCTTGAGCCCAGGAGTTCAAGCTCTGCCTGGTGGC
AAGACTCTGTCTTCTTTAAAAAAAAAAAAGTAAAGCACAGAATACCTGGCATCTATTCTA
ATAAGTAGACTGCAACAAATGACAACTTTTGATGTAATCTTTTTGTTATATTTACCATTG
ATATGCAGTCAGTTGTCCTGAATGCATTATTTATATAAATAGTCCATTTAATTTTCATTG
ATGCTGGTGGAGAAAAGTCTTGAAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 228>:

GNMCJ40F gnm_228

CCGGGAGGCCGAGGCAGGCAGATCACAAGGTCAGGCGTTCGATAACAGTGTGGCCAATAT
GGTGAAACCTTGTCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGTAGGTGCCTG
CAGTCCCAGCTAATGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGAGAGGCAGAGGT
TGCAGTGAGCCAAGATGACGCCATTGCACTCCAGCTTGGGCGATAGAGTGAGACTCGGTC
TCAAAAAAGAAAAATAAAAATAAAGACAGAAAAAGAAAGAAAAAGACCTAATATCATCTA
AAATGAAATCATACAAACAACTTTTCCATGATGTTCTCAATGAAAAGATTTCTTACCAGT
GTTCTCTCTGATTTTCGAACAAATGGAAATTTTTCCACCAGTATTGGCATGAGAAACCAC
GGTGCCCTATTTTTAAAAAATTAAATCAATCCATGTTGACTTTACTTTCTAGAAAAGGAA
TAAAAAGGAAAACTACCATTCTAAAAGCAAATATCGATAGACATAGGAGGCAAACAGGAA
CCCTTACCTCAAAGAACTGGAACTTTTTTTGTTTTTTGAGACGGAGTTTCGCTCTTGTTG
CCCAGGCTGGAGTGCAGTGGTACAATCTCGGCTCACTGTAACCTCTGCCTCCCGGGTTCA
AGCGATTCTCCTGCCTTAGCCCCCAAACAGCTGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 229>:

GNMCJ41R gnm_229

ACCCTGATGATAAATTAACAACAGAATAAAGGTCACTCTGGTTTTACCCTAACAAAACTC
AAAAGGAAGCATCAAAAGGATCAAGCTGATTTGAAAGTAACTTAAGTGTATGACAGAACA
AAGCCCAATACTCTTCAAAGAAATACAACTAAATCAAATACTCAACAATGTAAAATCCAC
AATGCTCATCACCCAATCAAAATTGCTAGGCTTGCAAACAAAAAAAGAAAATATGACTCA
TAACTAAGAGAAAAATCAGTCAACAGAAACAGACTCAAAAATGACCATCATGAGGGAATT
AACAGTAAGGATATGAAGGCAGCTCTTATAAATATGGAATAGTTAAAAGACCCAGAAACA
TCCACCCACCTGTCCCGGGGTCCATTCTGTTTGCCAGCTTAGGGAAGCCACAGTGTCTAT
GGAGCTGAGGTCCAGCTGCTCCAGCTCACTCTCATTAAGAGCCAGAGCAATGCGCCCCAG
GGAGACGATATGGTGTTCTCTCCAGTAAGATGGCATGTCCCAAACCTTTAGGCAAAAAAA
GGAAATAGATTAGACTGAACACTGTGATGGTATTTACAATGATTTGAATGTTTGTGCCCC
TCTAAAATGCATATGTTAAAACCTAATCTCCAATGTGATAGTATTGGAAGGTTGGGCCTT
GGGAGATGATTAGGTCATAAGGGTGGAGCCTCATGAGTGGGTTAGTGCCTTGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 230>:

GNMCJ41F gnm_230

CCTGATCCAAATAACAATATAACAATAAAAAACAATACACATAAAAATACAGTAGCATTT
TTGACATAACATTTTGTACATATTTACATAGCACTTATATTGCATCAGGTATTATAACTA
ATCTAGAGATGATTTAAAGTATACATGAGGATGTGCATAGATTATATGCAAATACTACAC
TATTTTATATAAGGGACTTGAATATCCATGGATTTTGGTATCTTTAAGAAGTCCTGGAAC
CAATCCTTGGTGGAGGTATCCACAGGGGCAACTTCATTTTATTTATGGTTAGTTCTTATT
TATTTAGCTAATTGTTAGACTTTCAGGTTGCATTAAAAAAATGCCTCAATGTATGCCTTT
ATACATATACTGTTGGGTACTTGTCTCATTTACTCAGGCTAAATTCCCAGAGGTGGAATT
TCTGGGTCAAAGAATATAAATACTTTAAAAGCTTTTGATACAGATAGCCAAATTGCCCTC
TCAAGAGTATGTACCAACTTATATTCTCAACTACAACAAATGAGGGGTACCCTTACCTTG
TATCTTTCCAGTATCGTAAATGGTGATAAGTCTTTATACTTCTTGACATGTGAAGAATCA
ACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 231>:

GNMCJ42R gnm_231

CGAAAACTGTCTAATGCGTAACCGGAAAAGGCGTTCACGCGCnATCCGGCCACTTTCAGT
TTTACTCTTTCTCGGAGTAACTATAACCGTAATAGTTATAGCCGTAACTGTAAGCGGTGC
TGGCGCGTTTAATCACACCATTGAGGATAGCGCCTTTAATATTGACGCCTGCCTGTTCCA
GACGCTGCATTGACAAACTCACCTCTTTGGCGGTGTTCAAGCCAAAACGCGCAACCAGCA
GGCTGGTGCCAACAGAACGCCCCACGACCGCGGCATCACTCACCGCCAGCATCGGCGGCG
TATCGACAATCACCAGATCGTAATGGTCGTTCGCCCATTCCAGTAATTGACGCATCCGAT
CGCGCATCAGCAGTTCAGACGGGTTAGGTGGCACCTGACCGCGAGTAATCACATCAAAGC
CTCCTTTGCCAAAATGCTGGATCACTTTGTTGAGCTCATCTTTACCTGCCAGATATTCCG
ACAAGCCATGTTCATTACTCACGGTAAACAGGTTATGCGAATAACCACGGCGTAAGTCGG
CATCAATAAATAACACTTTTTGATCGGACTGGGCGATCACCGCTGCCAGAGTTGAACTGA
CAAACGTTTTACCACTGTCTGGCGTCGCACCGGTGATCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 232>:

GNMCJ42F gnm_232

CCGGCAATGGCTGGAACAGAAAGAGATCCCGGATCCCTATCGTAAAAGTCAGGACGCATT
TGAACATGTCTACGGTATGTTGGAGCGCGCCAGTCAGGAATGGGCGACGCCTCAGCCGGT
AATTTGAGTTTATAAAATACGATGACAACTAAAAATATGAATACGCCACCAGGCAGCACT
CAGGAAAATGAGATCGATCTGCTTCGTCTGGTCGGCGAGTTATGGGATCACCGTAAGTTT
ATTATCAGCGTGACCGCGTTATTCACGCTGATCGCTGTCGCTTACTCGCTGTTAAGCACA
CCAATTTATCAGGCAGATACTCTGGTCCAGGTTGAGCAAAAACAGGGCAACGCCATTCTC
AGCGGCCTGAGCGATATGATCCCTAACTCATCGCCCGAGTCTGCACCGGAGATCCAACTG
CTGCAATCGCGCATGATTCTCGGTAAAACCATTGCTGAACTGAATCTGCGCGACATAGTT
GAGCAGAAGTATTTTCCGATTGTGGGTCGCGGCTGGGCGAGATTAACCAAAGAAAAACCA
GGTGAGCTGGCGATCAGCTGGATGCATATTCCACAACTGAATGGTCAGGATCAGCAACTG
ACACTCACGGTTGGGGAAAACGGGCACTATACACTGGAAGGTGAAGAGTTCACCGTCAAT
GGTATGGTCGGACAGCGTCTGGAAAAAGATGGCGTTGCGCTGACTATCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 233>:

GNMCJ43R gnm_233

ACCCGGCGGAAACACCCGCAGCAGCCGCTCGGTGCCGAACAGTTTGACCAGCCCCGAAAA
CAGGACATACATCAGCCCCGCCGCAATGAGGCCCCCCGCCGCCGCTGCCGGGCCCATCTC
CTTGATGACCAGCGCCGTCGGCGAnTAAAAGGCGAACGAACTCCCCAGGAAAATCGGCAC
CTGCCCGCGCGTGACAGGTGAAAAATCAGCGTGGCGACCCCGGCCCCGAACAGCGCCACC
GAGGGCGACAACCCCACCAGAATCGGCACCAGCACCGTGGACCCGAACATGGCGATGGAA
TGCTGCAACCCCAGCACCACCCGGCGCTGCGGCGGGAGATCGGGAAGGGGGGGCGGCGCG
GCAGTCTGCGTCATGGGGAAAGTGTAGTGGGCAGGGGGAGGAGACGAGAGACAGAAACAT
GCTTCTGCTGTGGCCTTCTTTTCGCTGCTCCACGTCCAACGGAGAAACGCAGAACGCCAG
GGCCGTCGTGCACGAATGCGGnAGCCTCGCGTCTGTAGAAATCACGAGCATCCAGACCAC
CCCACGCACTTGAGGAACACTGACCTGCACGCGCCATCACCGCAAGGTGCATAGCGCCAC
GTTTAAGGCCCCTGCCCCTCTGGGGTAAGGGGTTTAGGGGCGGGGCAAAAAGCTAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 234>:

GNMCJ43F gnm_234

CCCGGCTGAACAACCTGCTGCTGGTGCTGATCGGGCTGGTGGTGGTGCTGACGGTGCAGC
TCGTGGGGACCACCCTCAGCGTCACCTGCTGATCACGTCCAGCGCCGCCGCCCGCCTGCT
CTCGCGGACCTGCGGACCATGATGCTGCTCGCCGCCGCTCTGGGCATCCTCGGCGGGGTC
AATGGGCTGTATGCCAGTTATTACCTCGACACCGCGCCGGGGGCGACCATCGTGCTGGTG
AACACGGCTATTTTTCTGCTGGCGCTCGCGTTTCGGCGGAAGTAAGGGCGCTTCCCTAAC
CCTCCACGGGCAACAAGCGCAATTCGCCCGTGTCCGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 235>:

GNMCJ45R gnm_235

GTAATCCCAGAACTTTGGGAGGCCGAGGCAGGTGGATCACAAGGTCAGGAGATCGAGAGC
ATACTGGTCAACATGGCGAAACCCCATCTCTAATAAAACTACAAAAATTAGCCAGGCGTG
GTAGCGCACGCCTGTAGTCCCAGCTACTCAGGAAGCTGAGGCAGGAGAATCACTTGAACC
CGGGAGGCAGAAGTTGCAGTGAGCTGAGATCATACCACTGCACTCCAGCCTGAGTGACAG
AGCCAGACTCCATCTCAGAAAAAAAAAAAAAAAAAAAAAAAAATATATATATATATATAAAT
ATAAAACCAGTCTAGGATCAGACTTCAAGTTTCACTGAGCTGGAAGTGGCTGCCAATGCT
CCCCAGCTCTTTAGCAAAAGACATTTACACACGATATTGTATTGGAGGCATTTGGGGAAA
ATGAAGGAAGTGGGGAGCATTTACAGGGTGCAGTGACTCTAACATCAAGAGCTAATTACA
AGAGCCGTGGGCAATGACAGATGCCAAAACAAGATGGAGGAATCAACTTTTATATAGACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 236>:

GNMCJ46R gnm_236

CCTTCCAAGGTGCCAGCTCTGGAACGAAGGATGCCCTTGGGAGGTGATGACACTCAGGTA
CACGGGTGCTCAACAGATTGCTTCCTCCTATCCTCAGACGGTCTTTGCATGCATGCAGCC
ATTGGCACTCCCATTGTGTGGAAGGAAACCAGCCCAGGGTCACACAGCTGGTCAGCAGCA
ACATAGCTGGTCTCAAATCTAAGGTGCCTGACCATGCCTCCATGAGGGACCGCCTCCAAG
GGAGGTTGATCCTGGCTTTGGGGAGCCTTTCCTGGGCTGCACGAATAACCTCCATTGTTC
GAGACCCCAAACTCTGCTCACATCTTCCTTTCCCTATCTCTGCTTGGGCTATGATCACGG
TGACTCTAGCAGCCCTTCATGGACATTATAGTACTCTCTGCCATTCACTTTTGCTCTAAT
CTGACTTCAACCCCCACTTACTTGGTCTCTCCTTTTACAACCACCACAACCGAAATCTAG
GGCTGCTTTTAAAAAATTATTTTTTTGAGACAGAGTCTCATTCCATTCTGTCACCCAGGC

TGGAGTGCAATGGTACGATCTCGGCTCACTGCAACCTCCGCCTCCCGGGTCCAAGGGATT
GTACTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGTGTGCCACCATGCCTGGCTAA
TTTAAGTATTTTTAGTAGAGACGGGGTTTCACATGTTGGTCAGGCTGGTCTCGAACTCCT
AACCTCGTGATCGCCTGCCTAGCCTCCAAAGTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 237>:

gnm_237

CCTGGTACATTTACAAAAATTAACCTGACTTATTTTGTTCCAGCAAATCTCAATATATTT
GAGAGCAATCAAATCACACAGCATGTTTCTGATCATATAACTGTGCTAGAAGTCAATGAT
TAAAAGCTAATTCAAAATTATTATTTGCTTGGAAATTCAAAGTGCCCTTATAAGACATAA
ACATAAGAAAGAATCCAAAATGAAACAAGATTGCCTTTCAACTCAATGATGAGATCATAA
CATGGCAATAAAATGTCTCCCTCTGGCCTGGGAATTCCTCTTTGTGGCACAAGGTTGTGT
GATCTCAAATCACCGCTAACCCACCTAGACATTTTAACATCCGAAACCGAGTGATGACGT
CCTTATCTATATCATCTTACTGCCTGTGTGTGTGGACTTTAAATTCTGAACCCAAATGAG
GGGGAGAAAACCAAGTTGACTTTCATGACTGAGCTCTCAGGGACGTCCAAGGAATCTGTG
CATTTCAAGAAACAAAGTTCATCAGCTTCTCTCCTAAGGTATTTGCCCACAATACCCAGA
GGGcTTGGCAGCATCATGTGTGATGGGTGGGGAGCTCCAAGCAGGTGGGCAGGACCCAGG
GGCCTGGTGACCAGGACAGACCCCCACTGTCCATCACCTTTsCTGGCCCTGTCCTCTGCT
AAACTTCCCACAGGCCTTCTGCACGATCACACAGAGTATGCCCAAACTCTCTCAGGCCTC
TGGCAGCTGAAAACCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 238>:

GNMCJ47R gnm_238

CGGGGGGAAAAAAGAATAAAAGGATTTAAAAAATACAACTATGTTATTTTGGGATGGAAA
TTCATCTGATATACACACGTTCAAGGTGTCCAGATTAGTGCCTTATATCACACCCCAACA
CAATACACAATTATGGTGCAAGCCTGTAAACTGACCTAGGTCATGAAGGAATTTAAATAT
AATAAACCAAGCCCCTTTTACTACATACTTATATAAAATCGACAACTATCACATGATGCT
CTATGTCAGGTAGCCTCAACAAATTCAACATTTATTCTAGCTCTGATATGGTCTGGCTCT
GTGTCCCCACCCAAATCTCACTTTTATAATTTATTTTTTTTGAGGCAGAGTTTTGCTCTT
GTTGCCCAGGCTGGAATACAATGGCAAGAACTTGGGTCACCGGAAACTCCGGCCCCCAGG
TTCAAGAGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACTG
TGCCCAGCTAATTAAGTATTTAAAGTAGAGATGGGGGTACTCCATGTTAGTCAGGCTGGT
CTCGAACTCCTGACCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 239>:

GNMCJ47F gnm_239

CGGGTCAGGAAGGGATTCCTACGGAAGTGATTTTTCCTGTTTGGCCTTTCTTAAGGGCAG
ATTATAATTATAAACAGTTAAAACTTTGTTTAAGGAGGCCCGCACTAAGGTGCAGTGGGA
ATGAAAGGAAGTGGTAGATTCTAGTGACATTGTGAGGAAAGGTGAACTGGTCCTTGAGAC
TGGTTTGGAGGAGGGGAGGCAGACAGTAAGGGAAAGGAATCCTTCAATAGTTGCTCCCTG
TGGAATCGAATCTTGGTGTTGCCATTAATGGTAGTTAGAAATATGAAGAGGAGGCTGGGT
GTGGTGGCTCACGCATGTAATCCCAGCACTTTGGGAGGCCGAAGCGGGCGGATCACGAGG
TCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACTCTGTCTCACTAAAAATATAAA
AAATTGGCCGGGTATGGTGGTGGGCACTATAGTCCCAGCTACTCGGGAGGCTGAAGCAGG
AGAATGGTGTGAACCTGGGAGGTGGAGCTTGCAGTGAGCCCAGATTGTGCCACTCTGCTC
CAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAGAAAAAAAAAATATGAAGAA

GAGGCAGTTGGAAGAGTAGTTCCATCTTGGCCAGGTTCAGTTGCTGGTGGGCAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 240>:

gnm_240

CGGTAGGTTTCAGTTCCAGCTCTGCCTCTTATTGACTGCAACCTCAGGCTTAACTTTCAG
TCTCTGAGCCTCAGTTTCAACTCTGTAAAATGAGGTGGCTATACCATCTCAGGTTGCAGA
GAGAATTAAATGAAATATAAGTGCATGTAGAGCATTGAACCCAGGGCCTGGCACACACAG
TGAGTACACAATGTTAGCCAGGTAGCTTCATAATGCATACTGATTGTCAATATTCAGACA
ATGCAGTAAAGTGTTACCAAAAATAAAAGTAAACTTATTTGCATATGTATTCTTTCAATC
TTTATTTTTAAACAGGGTAAAACTATGCATATTCTTTCATAGCCAGTGTTTTTCTCTTCA
TAGTATATTGTTAAAATAATTTTACTTGGACCGGGTGCAGCGGCTCACACCTATAGTCCC
AGCACTTTGGGAGGCCGCGGTGGGCAGATCACGAGGTCAGGAGTTGACACGAGCCTGGCC
AATATGGTGAAACCCCATCTCTACTAAGAATACAAAAATTAGCTGGGCATGGTGGCACAC
ACCTGTAGTCCCAGCTACTCAGAGGCTGAGGCAGAGGAATTGCTTGAACCCGGGAGACAG
AGGTTGCAGTGAGCCAAGATTGTGCCATTGCACTCCAGCCTGGGGGACAGAGTGAAACTC
TGTCTCAAAAAATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTATGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 241>:

GNMCJ48F gnm_241

CCTGACTCAATGTCACTCAATTGATTCTGAGTTCACTGCTGATTACATCCGACCAAACTG
CTTTTTCTGAAGTCTACTCCGTTTAATCATGCTGGTGATGATTTTGTGCGGCTCTGGGAC
AAACTCCACCTGGCTGAAGATAAAGCAAATCTGCGGTGACTTAGTCCTCCTGTCATTTCC
CATCAGTTCCCCACTCTCCTCCTCTGCCCCTCCACAGTCTCCCATGCAGGCTGACACCAT
ATGACGGCCTTAATGGAGTCCACCGAGTATTTCAGGTTCTCTCCTGGGCCACTTGAAAGT
GGATGTACCCATGGGATTTGCTTTGACCCAGGAGATGTGCGTGGAAGTGAAGCGTGTCAC
CTCGAGGCAAAAGAGTTGGGAGCCATTGAGACGGGCCACTCTCTCCTTCATCTCTTAGAG
CAGCTGACAGCTCCCATATGGAGGCTGCTCCTTTATTCTCGTGGCAGGATGAGGGCATGT
GGGGCACAGGGCACAGGAGAGCCATGGAGGATGTGCAGCATGGGCAGGAAAAGAGCCTTC
AGTGGTGTACATTTCCATAGTTTGGGGCTGTTTCTTACCTACAGTGATACCTAGCCCATC
CTAACAGGCATGCACCATCTACTCCACACTCTGTGATGCAGACTAGCCTGCCGTCAGAAC
ACGAACTGGTGGTCAGACACAGGTAGGTTTCAGTTCCAGCTCTGCCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 242>:

GNMCJ49F gnm_242

AAGTAAGTTCGGAAAAGTACATTTATATGTCACCATTACTAATACACTTGGGGTAAGGTG
TATTCTCAAACTCTAATGTTCATCCAGCCAGTCAAGGTGCCTTGGAAATTGTGTACCCTC
CTCAGCCCAATAGACCTTGGGCCTCTGAAGAAAACTATTGGAAGAAAGTTTCAAGTGGGC
AGTCATGGGATTGTTTTAGTGTGGAAGGGCTAAGAAAAGAAAAAGAATTGTGGACAACTA
AGATCACATCTCTGATGTGAGCAAACATGATTTAAAGGGATTGTTGGCTATGAACCAAAA
ATCATTTAAGGGTATTTTTGTACTGGAGAAGGCCAAGGACAAAAGATATAAAGTTTCCCA
TCCTTGGGATCATGAACTCAAAGCAAAAGCAAAATGGATTAATAGCTACTTCTATTTATA
GCTACTTCTGTTAATAGCTACTTGAGCATGAGCAATGGTTAGATTTTAATTCTAGAGTTT
ACAGTGGAGAAATACACACATTCTAGGATTACTTAACTCACTAGTCAACCTGTCCCTCTC
CTTATGATGTTGACCCAATGACACTAAAATCCCTTGGGCATCATGATTCTTGAATGCGGT
CTCCAAAGAATGCTGCCAACACAAAGGGGATCATGAAGAGACTGTGGGCCTTGCTTCCAA

TTTTTCTTCTTCTTCTTCTTTTTTAAGTCATATGTGCCCTGACTCTTCTGGCCAGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 243>:

gnm_243

GTACCCCTACTAAAAACACAAAATTAGCCAGGCATGGTGGTGCATGCCTGTAATCCCAGC
TACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTTCAGTGAGC
CAAGATCGCACCATTGCACTCCAGCCTGGGCAAAAAGAGCGAAACTCTGTCAAAAAAAAG
AAAAAGAAAGAAAGAGAGAGAGAGAGAGAAAGCAGAGAGGCTACTGCAGAGAAAAGTC
TAGAAGGATGGGTTCATGGGTTCATCGAGAGACAATAGCTTAACAACCAGCACACCATAG
TTGGCAAAACACTATCATTGAAAAAAAAACATGCTCAAAAGGGGAAATGCCAGTTTGGGT
AAATATGCTTTTGTGTTGGAGAGAAAGAATTTGGAACAGGCTTTTCAGACCCCCTTAAGG
CCCAACAAACAAATTATAATTTAGACAAGTCTGGGATTCTTCACAGCTCAGCTTGTGGTG
ATGGTATTAGCTTCACAACTCCAAACAAGTTAAGCTGTCTGTGTGAAATCTCCTCAACAA
CACCTCACTGGCAAACCTGGAGGTGCTGAAAACAGAGCTTTCAATTCTTGTTTGCAACCA
AGGGAGTTGAGTTGGCAGATGGGCACTGTGTCCAGCCTTGGGAAAGGACATCGCAGACTT
TGCATCCTAAGAACTCATAACCACAACGGCAAGGTAAGACACAAGCTCTTGAAAGTTTCC
ATCACAGTGCAGCACAAATGACCTTGGCTATGTGCCCTGTTATTGCTGGTCCCTGCTTAA
AAATCTCCTGTGACTTCCAACCACACAAATTTCCTACCTGGTTGCAAAAATGCCCTTGAT
AATTCACCCCTCCCTCTATCTTGCCCCCTTTACAATGTGGCTTGGCAGCTCCTCCCATCA
AGAGTTAAAATCTATTTCCTCACCCCTTGAATCTAGGCTGGCCATGGGACTTGCTTTGGC
CAATAGATGTGGCAGAAATTATGGCGTGACAGTTCTAAGCATGAGTCTCAAGAGGCTTTG
CATGCAGCAACTTTCTCTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 244>:

GNMCJ54R gnm_244

AGGCCAAACCCCTTAGGTTTTAGGGTTTTTTTCTTTTTTTGAGATGGGAATCTCCCTCTG
TCGCCAGGCTGGAATTCAGTGGCATGATATTGGCTCGCTGCAGTCTCCGCCTCCTGGGTT
CAAGCAATTTCCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGAAGTGCACTACCACA
CCCGGCTAATTTTTCGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGT
CTCAATCTCCTAACCTCATGATCCGCCCACCTTGGCCTACCAAAGTACTGGGATTACAGG
CGTGACCCACCTCACCTGGCCAAGTATTGGTTTCTTAACAGATTTTGCCATTGGACAGAA
CGGACCTGATAGAGCAAGATGTCAAAAGACTCCCTGACAAGTAAAAAAGGGGCCAGGCAT
GGTGGCTCACACCTGTAATCCCAGCACTGTAGGAGGCCGGGGCAGGTAGATCACTTGAGC
CCAGGAGTTTGAGACCAGCCTGGGCAACATGGCAAGACCCCATCTCTAGAAAAACAAAAA
TTAGTGAGCAGCACAGGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGGAGGATCCC
TTGAGCCCCAGAGGTGGAGGCTGCAGTGAACCAAGATCACGCCACTGCATGCTGGCTGGG
GTAATAGAGCAAGACCCTATCTAAACAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 245>:

gnm_245

CAGAACAAAGGGGTCTGGGAAGAATGACAGCATGACTGAAGGGCTCCGTCTGGAAAGGAA
GGATAGTGTGCCACCAGGAGAAGGAGAGCCACCCCAGACACCAACAGCTGAGACAATCCC
AGCCCTGGGTTCATGGCCCAAAGTCACAGCCCACTCACCAACCCCAAAwACATACCCCyT
GTGACATGTGGCTGAGCACCAGACATCTTCCTCTCACCTTGCTGAGGATACCTTGCTGCT
GGGCAGGTGACAAGTCGGATACATACTGGGAGACGGCACTTCTCAGGACCTGCGAGATGT
CCTTGCGTTTCATGCTGCAGAAGGCCTGGGTGCTGACCCCAGCCAGCAGTGCGCCCATCT

GGCTGACATTGTAGAAAGACAGCACCTGGAAGAGGAGCGGTGCGCAGTCAGGCTCTGCTC
CCGCCTTTCACCTCTCCAACGTGCACTCAGCCCATCTATGTGCCAAGTATAGGGATGGGT
GACACCTTAGGGGCACAGCAGTGAGCCAGACAGATGCTGCCTCCACAGGCCTTCCTTCCT
TCTATCAAGAAAGAGAGTTGGCCAGGCATGGTGCTCACGCCTGTAATCCCAGCACTTTGA
GAGGCCAGGCGGGTGGATCACCTGAGGTCAAGAGTTCGAGACCACCTGGCCAACATGGTG
CAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCATGGTAGCAGGTTCCTGTAAT
CCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCA
GTGAGCTGAGATTGTACCATTGCACTCCAGACTGGGCAACAAGAGCAAAACTCTGTCAGA
AAGAAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 246>:

GNMCJ56R gnm_246

GACTACAGGTATGCACCACCATATGCTGCCCAGGCTGGTCTTGAACTCCTGGAGAGAGAT
ACATACACACACACACACACACACACACACACACACACACACACACTTTTTTTTTTTTTTG
AGACACAGTTTCGCTCGTCACCCAGGCTGGAGTGCAATGGCACAATCTTGGCTCATTGCA
ACCTCTGCCTCCTGGGTTCAAGCTATTATCCTGCCTCGGCCTCCCAAGTAGCTGGGATTA
GTAAGGCACTGCCACCATGCCTGGCTAATTTTGTATTTTTAGTAGAGACAGGGTTTTGTC
ATGTTGGCCAGGCTGGTCTCAAACTTCTGGCCTCAGGTGATCCACTTGCCTCGGCCTCCC
AAAGTGTTGGGATAACAGGCATGAGCCACTGCGCCGGGCCCATACATATGCATTTTAAAA
AATTTATTTATTTATTTCGAGACAGGGTCTCACTCTGTTGCCCAAGCAGGAGTGCAGTGG
TGCTATCTCCCAGGCTCAAGCAATCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGTGT
GCCATCACACCCAGATAATTTTAATTATTTTTATTTTTTAAATTTTTTGTAGAGATGGAG
TTTCACCGTGTCACCCAGGCTGGATATTTTTGTATTTTTGATAGGCCTGTACAGTTTCCA
AAGTTGCAACCTTTCCCCCTCCCTGAGAGTAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 247>:

GNMCJ56F gnm_247

CTGTTTAACACAGTAAGCAGGAGCTCGATAAATATTAGGAATCATATTACGCTAATTGTT
TTACAAGGTTTGCTTCACTTACACGTATAAATTAATGAAAAAACATAGCATCCTAATGAC
TCTGAAAGTTAAACGCCAAGAGTGCTATGGGGGTTAGGGATTTTAAAAGTGGAGCAAAAT
AAAGACTGCGAAACAAATACGTGTGTCGAAACAAATTTCAAACAAAAAAGATGTAATATT
CAATTTGCCATGAGTGACAACGTTCGGCTGATAACCCACATAGCCCAGGGAAATCCCTTC
CAAATTTGGACGAAGAAGAGGGAAGGAAGAGGGGTCAAGGCGCAGAAGGCAGTACCCAGG
CCTGGGAAATCACGAAGAGACACAGTCGGGAAAGTGGGCCTCCAGAACAGAGAACATACT
CACTTTTCCAGGCCCCACCCATGTCTATTACCCAGTTAGGAGGAATGAGCTCATTTCTGT
GAACGTGAGATGACCCTCGACCCCGTGCTCCTATCACACGCCATTAGCTTTGTCCCACAT
CCTTTCAATCCGCTCCTCTAAGCGCGGTCCTGAGCTTTGGTCCCAGACGCGCAGAAGGAA
GCGGCCTGAATCTTACCCAGTCCTCGACGCGCCCAGCGTCTTGACTGCAGAGGACGAAGC
GGCCGCATCTCCCGACAAACAACGTGTGAAGCAGCGGTGCCGCCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 248>:

GNMCJ57R gnm_248

CAAAATTGGTGCTTAACGAATATTTGTTGGGTGGATGAAAGCAAGCACTGACTGTCAACT
ACTATCACTGGGGGTGATTAACTTTGTCTCCTCATGCCTGGCCCCAGTCTGCACTTAGTA
GGTGCATGGTAATAATAATAAAATATCTAACACTTGGACAGGCATGGTAGCTCACATCTA
TAATCCCAGCACTATGGGAGACCAAGGCAGGAGGATCACTTGAGGCTCAGAGTTCAAGAT

CAGCCTGGGCAACACAGTAAGACCCTATCTCTACAAAAAAATAAAAAATTATCCAGATGT
GGTGGTTCATGCCTGTAGTCCCAACTACTTGTGAAGCTGAGGTGGGAGGATCCCTTGAGT
CCAGGAGGTCGAGGCTGTAGTGAACCATGATTGCTGCACTCCAGCCTGGGTGGCAGAGCG
AGGCCCTGCCTCTATAAAATCAAATTTTAGGCCGGGGGCAGTGGCTCACGCCTGTAATCC
CAGTATTTCGGGAGGCCAAGGCAGGTGGATCACCTGAGGCCAGCGTTCAAGACCAGCCTG
GCCAACATTGTGAAACCCGTCTTTACTAATAATACAAAACTTAGCCAGGCGTGGTGGCAC
ATGCCTATAATCCCAGCTAGTCAGGAGGCTGAGGCAGGAGAGTTGCTGTAATCTGGGAGG
TGGAGGTTGCAGTGGGCCGAGATCATGCCGCTATACTCCAGCATGGGTGACACTCCAGCA
AGACTCCATCTCAGGGAATAAAAAAAATCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 249>:

GNMCJ57F gnm_249

CCAGAAATCTGCCCCCATGATCCAATCACCTCTCACTGGGCCCCACCTCCAACACTGGGG
ATTACATTTCAATAAGATTTGGGTGGGGTACACATCCAAACTATGTCAAATATAAAGTTT
AGTAAAAACTTAGAAATAGCACCAAACCAAAAAAGGGGTAGGTACACATACATTTTTTTT
GTTTTTTTCTGAGACAGGGTTGTACTCCCATCACCCAGGCTGGAGTGCAGTGGCATGCTC
TCGACTCACTACAACCTCAGCCTCCTGGGCTCTGGTGATCCTTCTGTCTCAGCCTCCTAA
GTAGCTGGGATGACAGGCTCATGCCACCACGACTGACTAATTTTTGTATTTTTAGTAGAG
ATGGGGTTTCACCATGTTGGCCAGGCCAGTCTTGAGCTCCTGACCTCAAGTGATTTGCCT
GCCTCGACCTCCCAAAATGCTGGGATTACAGGTATGAGCCACCACACCTCGCCTAACCTA
CATTTTTTGTCGATATTACCAGATTGCTCTGCTAATAGTGCACAGTTTGACAGTCCCACG
GAAAAATGAATGTGCCCAGCATTAAGTATTAGCACTTCATTTTATTTTTGACAATCTGAT
GGGTGAAAAGTGATTTACTTATGTTTTTTAGACTTTATTGGATTTTCATTGAAGTTGAGT
ATCATTTTATAGGATTCTATATAGAGACCACATTAGTGGGACTAGGGGATAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 250>:

GNMCJ59R gnm_250

ATCAGAGTCACTTCATCTTCTGTGAAATTTGCAAAGATGCTAGGAGGTTCCCCTCCTGCT
GGGACACCCCAGCCCAGACACAAACCATTAATTCACAATTACATGGAGTTTCACTGTCTG
CAAGGCTGCTCCATTTAAGCTCTGGGTCATGAACACATAACTCTAGGCATACTGACACTA
GCTGGGAGATTTTCCACCAAAAAAAAAAAAAAAAAAATGCCATTTCATGACTATTAATCCA
AAATAGGTAAATGTGTCTGGCTTATAGAATACCAGCCTGATTACAAATGCTTGGTGTTGG
AATGGCCCAGCTCACAGTGGTTGTAGAAGTCCAGTAGGCCCAGGCTTTGTGGCTCACTCC
TGTAACCCCAGCACTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 251>:

GNMCJ59F gnm_251

CCGCCAAGCCGGGCTCCGCAGTTGAGGCGCGCGCGGGGGCCTGGGCGGAGGACTCACGGG
GCAAAGCGCTGGGGGAGCGGGTGGGCGCCCACCGCTGGGCCTCCCTAGGGAAGGGGTGCA
GGTGATGGATGGCGTGGGGGACAGACCGAGAGAAAGAGGGTGGGCAAAGTGTGGGTGCAG
CGGCTTTAAGGGCTCCTGGGATTGGAGGGCACTTGGAGGGGGGGGACGATGAAACTTCGA
GAAAAGGGATCCAAAACTACTTAGTAATATAATAACAGCGATGACAACTGTTGCAATAAC
TATCACAATGATTATTTGTTATAATAATATAGCAGCAGTAAAAACAATAGCATTAGTAAT
AATAGCTACGATTCATTGCATTCTTATATGTGCCAGTGCTGGGCTTAGTTCTTTATGTAT
TTTATGTATAAAGTAATGCCTACCTCATAACAGTTGTGTGGAAGAAATGGAAAAATGCAG
GTAAAGGCCGGGGCTCACACCTGTAATCCCAGCACTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 252>:

gnm_252

CGGTACCCGACCATCATCATCGTGGGACTGACTTTGGTGGAAGTCCTTGGTTACATGTCA
TTATTGCATTTCCGACAAGTTATAAAGTTGTCATTACCCTCTGGATAGTTTACCTTTGGG
TGAGTATACTAACTTTCTGTAGAGGTATACTTGTAATCACAAATAAGAATAAATTATATA
AAACAATTCACATTTCTGGACTTCATTATGAATATGTGGTTTTACCCAAAAAATCAGGGA
AATGATTTATTAGTATAAGAATTATGAAAACATCTGCCATTTGCATTATGAAAATTAAAT
AGGTCGGTGTTTGTTTAATAGAATGTCAACAGAGCTTTTGGTCAAAAATAAGTTTTTTTA
ACCTTTGTGCTATTTATCACAAATGGAGTATGAGGTTTCGTCACTTAAATAGGAAATTCT
TTCTAAACTCTTCTGCTTTATAGTTCTATCGTATGGGTGGAAGGAAAGCTTCCAATCTCC
TCTCTGAAGATTCACTGCAGAAATGAGCTGACAACAGACAGCTTAACAGGAAAAGAAAAA
CATAGAACAGGCATAAACATGGGAACCAGCTGAAAAATGAGACTGCTAGAAGGGCCGGAT
GGCTGATGCTTAAAGAGCACCCTCTTCTGAGGGGAGAGGGAGATAGATGGAGATGTAGGC
CATTTAGAGGGGCAGCAAATGATTTTAGGGGAAATGAAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 253>:

GNMCJ61F gnm_253

CTGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCTGGCCTGAAA
TAATATCTTTCAAATTCTTTGTAGAATTTGTTTTTTCCTGATTTCTGCACATAGGATAAA
AAAAAAATCATGTACTAGGATTTCGAGAGAAGCAATGGGTAATCTAAAAAGATGAAAAGA
GCAACCACGTCAATCCCACAGCTACTGCTAGATTTCATAGGAAAGGTAGCTGGCCCAGTT
TGGAGCTAGGGGAAATGTCAAACACATGAAGAAATGAGAAGCCAAGAAATGCCATCACGC
ATGAATGCTTCATGGCACCCATGATGTCCCTGCTAAGGAGGTAATGGTATAGATGACTAG
ATGACAAGGACAAAGATGAGAGGTGCGAAGTTGTCCAAGTCCAACAGCTCAACTGAACTT
TCCTAAGTGGAATTGTTAAAAAGTGGTAAATTTAAAAACTTCACCTGGCTCACGTGGTGG
CTCACGCTTGTAATCCCAGCACTTTGGGAGGCTGAGGTTGGTGGATCATTTGAGGTCGGG
TTTTGAGACTAAGCCTGGCCAACATGGTAAAACCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 254>:

GNMCJ63R gnm_254

CGGCGCAAATCACCTGGATGGGTGTGAAAGATTCCGACCATACCCGGAAAGACGGAACGC
GCATTGAAACGGAAGGCGACGGAAATGTGCAAACGCGACTTGGGGTGAAAACCTACCTGA
ACAGCCATCACCAGCGTGACGATGGTAAACAGCGTGAGTTCCAGCCTTACATTGAAGCGA
ACTGGATCAACAATAGCAAAGTCTACGCCGTGAAGATGAATGGTCAAACCGTAGCCGTGA
AGGTGCGCGTAATCTCGGTGAAGTACGTACCGGGGTTGAGGCGAAAGTAAATAACAACCT
TAGCCTGTGGGGGAATGTCGGTGTGCAACTAGGTGATAAAGGCTATAGCGATACTCAGGG
CATGCTGGGAGTGAAATATAGCTGGTAAACCGTATAAGCCGCATGTCGAGATGGCATGCG
GCTTAATATTGCCGACTTCAAACGGCGCATCAACGCCTTATTTAAATCCTCCTTTTTATC
CGCGATCGCGGATATCGCAGCGTTTATCCCGTAGAGCGGATAAGATGTGTTTCCAGATTG
ACTTATCCTCACTAAAGGATAAAACGCATAATATCCCCTTAAGCGGATAAACTTGCTGTG
GACGTATGACATGATGAGCTTTCAGAAGATCTATAGCCCAACGCAATTGGCGAATGCAAT
GAAACTGGTTCGCCAGCAAAATGGCTGGACGCAGAGCGAGCTGGCGAAAAAAATTGGTAT
TAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 255>:

GNMCJ63F gnm_255

CCGGCTTAACCGTCCATGCAACCTCAACACATTGCTTTCAACTGCCGTCACCACGTTCTC
CGGAAAATCTGTCGGTAATGAAGTCTTCACGTTATCCAGTGCTGCTGGAATCATTCTGGC
AAAGTCACTCAGGATTTCATGCATCTGCACTTCCGGGAATCTCAGCACCTTTGCTGTCGC
CAAAAAATGTCGCGGATAAATTTTATCGATTGCCGTTTTTTTGCCTTTGGATGCGTTAAG
CCCCATTGCCAGTTTGAGATCGCTGATGTGTATTCCCGTACCGCCAAGGACCGGAAATGC
TGAAATGATGTCGTAAAATGGCGTGAGTCGATAACTGCCGCCAGCCTGAATAAATACGGA
GAAGTTTTTTGCATGACCGTCCGTTGCGCCAATCAACCACTGGAAGACCTGGAATTTCAT
AAAATCATAGCGATCTTTCAGCGCCTCGCTGGACCCCATCAAAAAAGCCATGATCCGCGC
GATGCCTGGGCCTCCATCTGATTCATATTTCACCGATGAAGGTAAACCGAATGTCTGACA
CATATCCTCCTGTGGCAAGCGAAGTAAAACCGTTCGCTCAGCATTCCAACGCCTGTCAAA
ACGTTCGACCGCTAACGCGCGCACATTTCCCGCTTTAATGATTTCTGCGTCCGGAACATT
CAACCCAAGTTCTTTCGCCAGCAGCAGACAGTAATACTCATTATCACCGCTTTGGCTGAG
ATCGAGCGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 256>:

GNMCJ68R gnm_256

GTACCCCATACAGATCACCTGGGGATCTTAAATGCAGATTCTGATTCAGGAGCTCTTGGT
TGAGGCCCAGGACTCCCATCTTCCTCTTCTTCCTCCTTCTTCCCTTGGCCTCCCAAAGTG
TTTGGATTACAGGTGTGAGCCATTGCGCCCAGCTGACGCTGCACTTCCAACAAGCTTCCA
GGTGATTCTGGAACCGCTGCTCTGGTGAGCACACCTGGAGCGGCAGGAGATAAAGCAGTG
GTTCTCAAACCTGCCTCTAGATTAGTAACATCCCTGCCAGGTGCCACCCTCAGAGAATCT
GATGTTATTGTTCTGGGGTGTGGCCTGAGGTATGGCCTGATTTTAATGCTTCTCAGGTGA
TTTCAATGCAGCCAGGATTGAGAACACTGGATTGCAGGGTGGTTATGAGTTCCCAAGACC
AGATGAGCAAACACGCTCTCTCTCATTTTCCTTCCTCTCCATCTCTCTCTTCTTCCTTCC
AGTCAAGTCTCAATTCTACCCCCTTCCATTCCACTTTTTGTGGCCCTTTTCAATTTGCTT
AAAATCGAAACGATGACATGAAAATAATATTAAATGAAATTTTGATAAAGCCATCAATAA
TTTCACAGCAGTATCCCACACATCACCATAAAGTCCCCAAACACATTTGACATTTGAGAG
TGTGGTCATCTATTTAGGTCAGCGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 257>:

GNMCJ68F gnm_257

CCTTTACTCTTCTTAAAATTATCTCTTGCACCTCTTTGCACATTTCTATGATCATTTTAA
TAATTATTTTATTGCAATATGCCTGCCTAATGATAGTAAAGTGTGCGTTACAGCTGCTTT
CGGTAAGGAATGTGATAAAGTCACCTACTATACAATGAGCTCTGTAACAAAAAACAAGAA
TGGTTCATATTTTAACACCCGAATTTACGTAATAACGTAGTCATTTCAGGCAGGTGCACA
AAACGGGTTTCTGGCAATATTGAAATAGCCACTGGGGGGCAGCAGAGTGAAGTAGAAGAA
ACAACTGTCAAAGCGCCTGGGTTCTCTAAGTTCGGCAACTGCCTTACCTAGAAATCAGTT
TCCACATCTGTAAAACGAAGGGGTGGACTACAGTGGCAGCTCCCAAAGTGTGGAGCACAC
CCAGCGGCATCTGCAACACCTGGGAACTTGTTAGAAACGCAGATTGCCAGGCTGCTCCCG
GACCTCCTGAATCAGAGACTGGGTGGGGCTCCGAAATCCAGGGATCCCCAGACTCCGGGT
CACAGATGGGGACCACCGGGACCCTGGCCTGTTAGGAACCAGCCACAGCAGGAGGTGAGC
AGCAGGCCAGTGAGCATTACCGCCTGAGCTCTGCCTCCTGCCAGATCAGAAGCGGCATTA
GATTCTCCTAAGAGCAAACCCTATTGTGCACTGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 258>:

GNMCJ71R gnm_258

AAAGTTGGAGGGTACTTTTGTGATGGGTTTGGTTTAAATTGGTTTAAAATATAAGACACA
TAGTCCATAGAGAATTCACCTATGGACTATGCTGCTAAGAGAATCTCAAAGAGATGCACT
GTTATGCTCCAGAGTTTTGTGAGAGGCCACTAAGGTCAGGAGACACATGCCATATATATC
AAGATGCTGTCAACAGAGAAAACCAGTGAGGTTTCAAACAGAAGCCCCGCTCCATTCAAC
CAGGCAGCCACTCCTCATTGCAGGTGCTGACCTGGGCTTTGGCTGCTTCTCACATGGGCA
ACTCTATACACTCTATTCCTGGGAGAAGGGCAGCAAAGACCCACTTATTAAATGATGTTT
AACAATCCTCGGCCGGGCGCGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGA
AGTGGGCGGATCATGAAGTCAGGAGATCGAGACCATCCTGGCTAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 259>:

GNMCJ73R gnm_259

ATTTTCATGGACAGCAACTCATCTTCCTGGTTTTTATTTTTTATTTTATTTTGACACAGG
GTCTCACCGTTACCCAGGCTGGAGAATAGGTGTGATCACGGCTCACTGCAATCTTGACCT
CCCAGGCTCAGGTGATCCTCCCACCTCAGCCTGCTGGGTAGCTGGGACTACAGGCATGTG
CCACCATGCCTAGCTAATATTTTGTAGTTTTTTTTTTTTTAGAGGTGAGGTCTTACCATG
CTGCCCAGGCTGGTCTTGAATTCCTGGGCTCAAGTGATCCTTCTGCCTTGGCCTCCCAAA
GTGCTGGGATTAAAGACATGCGCCACCGCACAGCCCATCTTCCCATTTTTATAGGAAGGC
TGCTGCATAATTTTGGAATCTTTATGCTGGGCTGCAAACTCAAAGGCATAGGGGGTAAGA
TAGGCAACAGAAATTGTGTATCGAGTGCTTACTGTATGCGTGGCACTGTTCTAAGTGCTT
TACATATAACACATTTAGTTTTCACAACCATCCTATGAGGCGATTTTATTTCCATTTTAT
AGACAAGAAAACTGAAATACAGAGAGGTTAAATAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 260>:

GNMCJ73F gnm_260

CCCTCTACTAAAATACAATTATTAGCCAGGCATGGTGGCTTGTGCCTGTAGTCCCAGCTA
CTCAGGTGGCTGAGACACAAGAATCACTTGAACCCGGGAGGCAGAGTTTGCAGTGAACAA
CAGATCGCGCTGCTGCCCTCCAGCCTGTACGACAGAGCAAGACTCTGTCTTAAAAGAAAA
AGAAAAAAAAAAAGAAAGAAAAGCTAAAACAGGCCACAAAGGGACCTTTTCCTTTTATTTA
TTTATTTGAGACAGAGTCTCGCTCTATCACCAGGCTGGAGTGTAGTGACGCAATCTCGGC
TCATGGCAGCCTCCGCCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGC
TGGAACTACAGGTGCATGCCACCTGTAGAGATGGGGTTTCACCATGTGGGCCAGGCTGGT
CTCGATCTCTTGACCTCGTGATCCGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCCAC
TGCACCCAGCCTATTTTTATTTATTTTTGAGACAAGGTATCAGCTCTGACGCCTAGGCTA
GAGTGCACTGGCGCAATCTTGGCTTACTGCAACCTCCACCTCCCGGGTTCAAGCCATTCT
CCTGCCTCAGCCTCCTGAGTAGCTGGAACTACAGGCACATGACACCACGCCTGGCTAAAG
TTTGCATTTTGAGTAGAGACAGGGTTTCACCATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 261>:

gnm_261

TGAAATAATGATGTGTTTGTATTTCATAATCTATGTTGTGTCCTAGTTTtTCAGTGGAAT

ATAAATAATGATGGTAACTTAGATTCAATGTGAACCTTGAGTAGGGGTACAAGTTCAAAA
TCTGTATAAAAAAATCTATATTAAAATGAGAGAAGAGGCTGGGCGTGGTGCTnCACGCCT
GTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATTGCCGGAGGTCAGGAGTTTGAGA
CCAGCCTGACCGACATGGTGAAACCACATCTCTACTAAAAATACAAAGATTAACCGAGCG
TGGTGGCGGGCACCTGTAATCCCAGCTACTCAGGAGGTTGAGGCAGGAGAATCGCTTCAA
CCGGGGAGGCAGAGATTGCAGTGAGCTGAGATTGCACCACTGCACTCCGGCCTGGGTGAC
AGAGGCrrCTCCGTCTCGAAAAAAAAAAAAAAGAGAGAGAGACAGAAGAGAATTTTATTAG
GAAATCTAGGCAATAAAACACAGAAATTTAACTCTGAGCGTCCTGGCTACCAAAGCAGGT
AGGTCAGGATTTATTTATTTGATGGATGTTGCTTAAAGCCTCCTTGTGTCCTAGAGCAGT
CAAATTCATAGAGACAGAAATTAGAATGGTGGTACAGTTTCGATTTTGCAAGGTTCAAAA
TATTCTGGATATGGCTGGTAGTGACGGTTGCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 262>:

GNMCJ77R gnm_262

CCATTACACTCCAGCCTGAGGTGACACAGCGAGACCCTGTCTCAAGACGAAAAAAGTTCT
ACTTGCAACACTCCACACAACTAGTGCAATTCTTGGTATGTCAAAATACCAAGAATGAGA
ACTGCTGATACAAAATACAGTGGAACACAAAGAAAATGTCCCTTTGTATCTGGGAAAGGA
GGCAGGGGTCAGGAAAAGCTTTAAAGAGAAAGTGATGCTTCAGCTGTCTTTAAACAGTAA
CACAGTTGAGTCTTTTCTGGAAGTTCTGCTTCTTACAGAAGGAAAAGTATGTATTCAGAA
AACTGAAAAATGTTCAGTATGGCTGGCATGTATAGTGACCAAGCCAACAGATAATAAATC
TGGGGAACAAAGAAGCACCAAATAGACCATGGAGGGCCTTGTAAACCAGATCTGTAACTA
GAGAGATCTGGAAGTGTGGGAAATAGACTCAATGAAGGAACAACCATGTGCTTAGAGAGA
ACCAGGGAAAGCTCCATGAAAGATGGAGCCCAGCCAAGAGTGGACATGATAAGTTTGGAG
CATCTATGATGATTCTGGGTAAATGCATCTAACAGACAGTTAAGAACCAAGTCTAGGCCG
GGTGCAGTGGCTCACGTCTATAATCCCAGCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 263>:

GNMCJ77F gnm_263

CCGAACAGTCTCTGACTCAAAGTAAGGGCAGTAATTGTCATCTGTTGTTTTTGTTCCAGC
TGACTGTGCTGTATCATTTCTCACTCACATTTAAGTCCACTGTTCTTATCACTGTAGTAA
TTACCCTGACAGATTACCCATGTTTTTTTTTTACATGCTGATTTCAGTGGACTTTTTTTG
AGACAAAGTCTCCTTCTTGTCACCCAGGCTGGAGTGCAGTGGTGTGATATGGGCTCCCTG
CAACCTTTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGAGAT
TACAGGCACCCGCCACCATGCCTGGTTAATTTTTTTATTTTTAGTAGAAACGGGGTTTCA
CCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGACCTGCCTGCCTCGGCCTC
CCAAAGTGCTGGGATTACAAGTGTGAGCCACTGAGCCCAGCCTCAGTGGACTTACTTTTT
TAAGCCTTGTATTCCTTGTATCAGCCGACACTGTTGGCCACCCACTTCTTAAAACTTCAG
TGTTTCTGATCCTCCTGTCTTCTGATCCTTTAATCTCTCTCTTTTTnTTTTTTTTTTTTT
TTTTGCTCTGTCGCCCAGGCTGGAGTGCAATGACGCAATCTTGGCTCACTGCAAGCTCCA
CCTCCCGAGTTCAAGTGATTCTCCTACCTCAGCCTCCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 264>:

GNMCJ86F gnm_264

CCTTGCCTTTTAGGAAGAAATAATAGATGGAAGCTATCTGAATGGTAATGTGCCCCCTTG
ATCTCCACTTGCTTCTTCTAAGAATTTCAAACAGAATGTAGCTGTGATCTCTCTGGAATG
ATTCCTTTTAAAGATGTCTTTTCATTTTACTCCCATTGTAGCACTGCTGGATCTCATACA

GTTTCAAAGGTAAAATGCCCTAGAGGAGAGGGGAAGGGATGGTATAGATTTTTAATAAAA
ATTCTTAATGGAAGTCTCTTAATTGTAAAAAGTAATATGTGCTCATTACAAAAAATGTCA
ATCAATGCACAATGTGTTAAAAGTCAACAAACACCCTTGCTCCACGGGCATCATTCCTCC
TCACTCTAGCATAAGGGCCAATTTTTTTTCTTTTTTTGAATGGAGTTTCGCTCTTGTTGC
CCAGGATGGAGTGCAGTGGTGCTATCTTGGCTCACTACTGCAACCTCTGCCTCCGGGGTT
CAAGCAATTTTCCTGCCTCAGCCTCCTGAGTAGCTGGGGTAACAGGTACCTGTCACCATG
CCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGTTTTCACCATGTTGGCCAGGCTGGTC
TCAAACTCCTGACCTCAGGTGATCTGCCGGCCTCAGCCTCCCAAAGTGCTGGGATTACAG
GTGTGAGCCACCGCAACCGGCCTAAGAGCTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 265>:

GNMCJ88R gnm_265

GTACCCTGTCTAAATTTGCCGTCCGTTGAGGTAGAAGGCAAATTTGGAGTTTTCTTGTTT
AGAAAAAAAACTACAGATGACTACTGTGCACCTGAAAACAGCACTCAGCTTCACTAACGA
GACATGCAAGCTAGAATCAAATTGCTGTTTTGTTTTGTTGCCTGTCGTGATTGTTAGCTG
AAACCAAATCACAAGGTCTTTTTCTCCCTCTGTATTAGCTCAGCATACACTGAGCTTACA
AACGTATGAACTTCACGTTGTCGTGGAATCTTACAGCCTGCTACTTCCTAAGTATCCTTT
AGAGAAGCTGCCTTGGTGACCAATGAATGTGGTTAGCCTAGTGATACTCTTCTGGGCCAT
ATACTGTGTGACTATCTGCATGGACCTTTATTGAAAGCATTTCTGCAAATAATTTTTTTA
AGTGTTTTTTAAATGTGTGATAATTTGTGCTTTTAAAGATATCTTACACTTTTCACTTAT
TTGTACCTTTAAAAATCTTTTTTTTTTTTAAACCAAAGGTTTGCAGTATCCTCAGAGTCT
GAAATTTGAGCGGATAGTGATGAGCCAGCCAAATCCCCTGAAGATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 266>:

GNMCJ88F gnm_266

CCAGTTCGAGACCAGTCTGGCTAACGTGGTGAAACCCATCCCTACTAAAAATACAAAATT
AGCCAGGTGTGGTGGCGCATGCTGCTAATCTCAGCTCCTTGGGAGGCTGAGGCAGGAGAA
TCACTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCAAGATCGCACCACTACACCCCAGC
CTAGGAAAAAAGAGTGAAATTTCATCTCAAAAAATAAAATAAAATAAATATGACAGTAAT
CTCTGTTTATTAAACACATAATGTGCCAGGTACTATTGTGGTCACCCTGCAAAGACATGG
ACCCCACCACCCAAAATTTGTTTTAGATGTCAAGACTGATGATACACCACATGCACCAAG
AGGGTAGGAAAAGGTTTATTGCTCATATAATGAAGCTTTCTGAGAGAGCAGGGCAGATTC
CCAAGCAGGTCCAAAAATGGTTTCAGAAAACCAGGCAAGGAAACTCCCTTAGCATTTATG
GTGGTTAGGGATGGGGATGGGGATGGGGATGCGATGGGGATGGGGATGAAATGTGGGTCT
GGTGGGAGGGCTAGGGCTTGTTGGGTATGAATTTCCAGCTGGTGCCAGAGGAGAGAGCAG
CAGGCTTTCTTAGCTTGCCCAGATGTGGGGCAGAGGGGGAGAAGGAGGGTGGAAGATGTT
AGCAGTCCCATATCAGAAGTGGAGGCAGACTGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 267>:

GNMCJ90F gnm_267

CCGAATGAAGTAATCTCTTCATTGTATTTTTTTTTTTTTTACTTATGCTGAGATTTAAA
TGACAAAGATTCATATAATCCAAGAGAGAAGTATTATTTAGAGGGATTCTTTTACCATGT
GATATATAATAAATGCATCCAATGTTATACATCAATTTAAAAAACAAGTAAATAACTTTA
AAGAAAAGATAACTACTGGCCAGGTGCAGTGGCTCACACCTGTATTCCCAGCACTTTGGG
AGGCCAAGGCAGGTGGATCATGAGGTCAGGAGTTGGAGACCAGCCTGGCCAAGATGGTGA
AACCTGTTTCTACTAAAAATACAAAAATTAGCCGAGCGTGGTGGCAGGCGCCTGTAATCC

CAGTTACTCAGTAGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTG
AGTTGAGATCATGCCACTGCAATCTAGCCTGGGTGACAGAGCAAAACTTTGTCTCAAAAC
AAAAAGAAAAGAAAAGATAAGATAATTACTTTATACTTAGCTTGTCTTACCCATGAGTGA
CGGGCTGCATGTGGCCCAGGACAGTTTTGAATGCAGTTCAACACAAATTTGTAAACTTTC
TTAAAACATTAGGAGATTTTGGCCAGGTACAGTGGCTCATGCGTGTAATCCCAGCACTTT
GGGAGGCTGAGGCGGGCAGATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 268>:

GNMCJ91F gnm_268

CCnTGTCGCCCAGACTGGAGTGGAGTAGCATGACCATAACTCACTGCATTGCGGAACTCC
CATGCTCATGTGATCCTCCTGTCTCAGCCTCCTGAGTAGCTGGGACCACAGACATGCATC
ACCATGCCTGGCTAATTTTTTAACTTTTTGTAGAGACAGGATCTTGCTTGCTATGTTGCC
CAGGCTGGTCTCGAACTCCTGGCGTCAAGCGATCCTCCTGCCTCAGCCTGTCCAAATTCT
TAACACTATACTATTCTGCCTCCTATACTAATCCCACAGAAATAAATTTCTTTTATCAAA
TTAACCTTAAAACAGACCATTCATTCTCACAAGACAGATAGTCAGAAATACAGGATCGAT
CTGTGTTTCATGGTAATACCTGGCTCCTTCCAAGTTCCTTATCCTTCAGGACTGTAGAGT
TGAATCCAGGTTGCCTCCTTAAATCAAAGAGAGACACTTCCTTAAAGAAAGCCCCTTGTA
TCTCCACGATGCCTGGGGCAGTGTCTTCCGCTTGGACCATCTGCCAGAAGCGAGAAGCAA
CAAAACAACATTGTAAAAAATGCATTGAGCTTTGAGGAAGGGCCAGGCACTACATCACAG
GCAATAAAATCCATCAGAACCGCTCAGCAACCCTAGGAAGTGGAGAGTAGCATCATCCCC
ATTTCACAGGTGAGGGAACAGAGACTTAAAGTGTGATGAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 269>:

gnm_269

GTACCCCATGGGTACAGAGGAAAAGCAAAGAAAGGAAGGATAAGGATGGGTGCGTAGGAA
GACAACCTTCCAATTACAAGGCAGAGTAGCTCTGACCTTCTAGGAACAGGTGAGCCCCTa
aGAACGTCCCAAGGGATGGAAAGCAGGTTCTCCTAACCATCTCAAAGGCACCCCTCTTAG
GGTGATTGGCCAAATAGGACATGTTCACCAACACGTCTCAAGAGAAAGACAGTCTGGTGG
ACTTCAGTATTCCCTGATGCATCCAGTCAAGTCCTATGGGTGAATAATTTTGTTCTTGGG
GAAGGGTTTCAACAGCATCCTTGTCCAAAGATATCTTCATGGGCCACTGAAAGAAACTGG
CCTCCTAGATAGGTCTATTACCTTTAAAAGGGTTTTTCTTCAGCTTTAACAGATACAATA
GATTTGGAATGCAAATGAAAAAAATGACAAACCTACAAAAAGAATCAAAACAGTATACAA
CACTGTCCTCTATCCACAAAACAAATGGATCTTTAAGTGCAACCACACAAAAGAGATGAC
AAAAGCCTTACATACAGGGTTTTATATATAAmAmAGGAGACACTTTATTCTAAAATCACC
ACTTAGAAATATAAACATCTTGCACAGAGTAGGAATTTTATTCACTTTAAAAACATGCCA
AAAACATATGGGAGATATTTCTGACTTGAGACAATGCTATACTCTTTTTTAAGCATGATA
TTAAAAGTACTCGGCAAATTAGGCTACTTACATAAGAGAAATAAATTTAGCTCTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 270>:

GNMCJ95F gnm_270

CCTGCACTCCAGCCTGGGCAACAAGGGAGAAACTGTCTCAAAATAAATAAATAAATAAAT
AAAATAATGTAGATCTTGAAAGGGGGTTGGTTTATGCTGGTGTATGTACTTTCCAAAGTT
AGTAAACTTACACTTAAGGTTATATATTTTGGCCAGGCGCGGTGGCTCACGCCTGTAATC
CCAGCACTGGGAGGCTGAGGCAGGCAGATCACGAGGTCAAGAGATGGAGACTATCCTGGC
GAACATGGTGAAACCCCATCTCTACTAAAAACACAAAAATTAGCCAGGCGTGGTGGTCTA
CTAAAAATACAAAAATTAGCCAGGCGTTGTAATCTGAGCTACTCAGGAGGCTGAGGCAGG

ACAATTGCTTGAACCCCAGAAGCGGAGGTTGCAGTGAGCCGAGATCTTGCCACTGCACTC
CAGCCTGGGCGACAGAGTGAGACTCTGTCTAAAAAAAAAAAAAAAAAAAAAAAAGTCATC
AAACCAGATGACACAAATCCAATGGCATTTCACTTTGGTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 271>:

GNMCJ96R gnm_271

CTGCATGACTCCGCCAAAATCTATCGCTTCCCGGTTTCGCAGAGCATTGATGAGCTGATG
GAAGCTTGTCGTGACGTGATCCGCAAAAACAATCTCACCAGCGCCTATATCCGTCCGCTG
ATCTTCGTCGGTGATGTTGGCATGGGAGTAAACCCGCCAGCGGGATACTCAACCGACGTG
ATTATCGCTGCTTTCCCGTGGGGAGCGTATCTGGGCGCAGAAGCGCTGGAGCAGGGGATC
GATGCGATGGTTTCCTCCTGGAACCGCGCAGACCTAAACACCATCCCGACGGCGGCAAAA
GCCGGTGGTAACTACCTCTCTTCCCTGCTGGTGGGTAGCGAACGCGCCGCCACGGTTATC
AGGAAGGTATCGCGCTGGATGTGAACGGTTATATCTCTGAAGGCGCAGGCGAAAACCTGT
TTGAAGTGAAAGATGGTGTGCTGTTCACCCCACCGTTCACCTCCTCCGCGCTGCCGGGTA
TTACCCGTGATGCCATCATCAAACTGGCGAAAGAGCTGGGAATTGAAGTACGTGAGCAGG
TGCTGTCGCGCGAATCCCTGTACCTGGCGGATGAAGTGTTTATGTCCGGTAAGGCGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 272>:

GNMCJ96F gnm_272

GTTGCCAGGCTGGCATAAGCACGCAGGCAAAGGAGACCTGACGTTCACGATTTTTCGGCG
TCCAGGCTTTGTCACCTCGAGCGTCCTGCGCTTCACGACGCGCCGCCAGTTCGGCATCGC
TTACCTGTAACTGAATGCCACGGTTCGGGATGTCGATAGCGATCAGGTCACCATCTTCAA
TCAGGCCAATGCTGCCGCCGCTTGCCGCTTCCGGTGAGACGTGGCCGATGGAAAGACCAG
AGGTGCCACCAGAGAAACGACCGTCGGTGATCAGCGCACAGGCTTTGCCGAGACCCATTG
ATTTCAGGAAGCTGGTTGGGTAGAGCATTTCCTGCATCCCCGGACCGCCTTTCGGGCCTT
CATAGCGAATTACTACCACATCTCCGGCGACAACTTTACCGCCGAGAATCGCTTCTACCG
CATCGTCCTGGCTTTCGTACACTTTCGCCGGGCCGGTGAATTTGAGGATGCTGTCATCGA
CGCCTGCCGTTTTCACGATGCAGCCGTTTTCCGCAAAGTTACCGTAGAGCACCGCCAAGC
CGCCGTCTTTGCTGTAGGCGTGTTCCAGCGAGCGGATACAGCCATTGGCGCGATCGTCGT
CCAGCGTATCCCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 273>:

gnm_273

GGGGGATGAAAACCAGCTCCCGTCCGTCGGAATAGGGGCGGTGCTGTCCGTTTTGTCACA
AAAAACCGTTTTGGACGGAGAAACGCACCAAAGGCTGGCCGGCTTCCTTCCGGAACACAG
TTTCAGCGTCACGCAAATCCACCCGTGTTGGCGCAAAACACCGCCCATCTGTCGTTCAGC
CACCGCTTCGGCGACAACAGCGGCATCGGCTGCCTTGCCCGTGCCGCCGTATCGGGCGAT
GAAGGGGCGTGGGCATTGTTTGACCGGTTTCCGGACGAACTGGAACATTCGGAATGCAGT
CCGAACGCTCGAGTCGAAAGGTTGTACCGGGCACACAAAGCCTATTGGCAGGCGGTAAAA
GACGGCAATATCGAAGCCGCATACGCGGGCATTTCGGATATCGTGGTTCTGGCAGCTTGG
CGGCAGGATGCGGAAGACTTCAACGAAGCCTATTGCCGCCATGTACGCCGCAAAATGAAC
ATACCGGAACATTTGGCATATTTTGCCGGAGAGCCGATTATGATCAGGCAGAACGACTAC
GCGCTTGAACTGTTCAACGGCGACATCGGACTGATTATGGAAGATGTCGGACGGCAGGGC
AGCCTTGCCGCCTATTTTGCCGATGCGGACGGATTTAAAAAGGTAGCGGTAAGCTGCCTG
CCCGAATTTGAACCCGCATTCGCCATGACCGTCCACAAAAGCCAAGGTTCGGAATACCGG
GAAGTATGGCTGCTGCCGCCTTCCGCCGCACCTTCGGACGAAGGGGACGATGCATTGTCC

GGATTGAGTAAGGAGCTGTTATATACCGCCATTACCCGCGCGAGAGAGAAGTTCGTATTC
TTCGGCGGGGAAGAAGCCTTCCGGCAAGCTGCCGCCACCGTCAAAACGCGTCAGACGGCA
TTGGGCAGTATGCTCGAGCGGGTATTTTCACAAGAATAATCCGCCCGAATGCCGCGCCGC
CGCCCCTTATGCCTTTTTCAAACGGTATAGGAAAGTGGTTTCCCGGGTTCGCGCAAAAGC
AAGCGGATCGCTCGGATTCGCGGCTTTTTTGTGCTTCGGCTTGGTTTTCATCATATCGGC
AACACGCAAACCCGCCTGAGCAAATGCCTTATCCAGAAAATCGGATGGACGCAGGTGCAG
ATGTTCGGCAAGATCGGAAATGATCAGGCGGATTTCTCCGTCGGGATTCAGATGTTTCGG
CGCATCCCGCAAAAACGCAGCCAGCATCGCAGATTCGGGGTCGTATAACGCGGATTCGAC
GGCGGAAGTCGGCTTGGCGGGAAGCCAGGGCGGATTGCAGACAATCAGATCGGCAAACCC
TTCGGGAAACAGATCGGTTTCCCGTATCTCAACCTGTTTTTCAAAGCCCAAACGGGCAAT
ATTGGCACGGGCGCAGGCGACGGCTTTCGGATTGGTATCCGTGCCGATGACGGAAGGAAT
GCCCTGTTTCGCCAAAATGGCGGCAAGCACGCCGGAGCCTGTCCCGATATCGAATGCCGT
CTGAAAACCCGTTGACGGCGCATGGGCGAGCAGGTCGAGGTATTCGCCGCGCAACGGCGA
GAATACGCCGAAAGGAACGTGTATGCTGCCGCCCAGCTGCGGAACGGCAACCCCTTTCTT
ATGCCACTCGTGCGCACCCATAAACCCCAGCAGCAGATTGAGCGGCAGGAAAAACGGTTT
GCCGTCCGCCTCTCCGTACACGTCGAGCAAAGCGGAGCGTATATCGGGCGCGCGTTTGTT
GTCCAACACAAAACCGGGGCGGATTTCAACGGCAAGCATATTCAGAATACGGCTCTGCTG
CGCCTGCTTCATACGGTGGGCATGGAAAAGGGCGGCGATATCCGCATCGGAACGGACGGC
GGCAGGTTTGCGAACCCTCTTCTTCATTGCAGAAAGCACCTGTTTGGCATTGTGGAAATC
GCCCTGCTAGACAGTTGCAATATTTTGATAGGCAGCCTTCAAAATGCCGTCTGCACCGCT
TTCGCGGACATAATGCCAACCTTTGGGCGGCTTTTGCAGACTTTCGTTGCGCCATTCGAA
CCCGTCATCGGGAAAAATAAAAGAAGACATGGGATACCTGCGTCATGTTTTGAAAATAGG
GCGGCAGAACCGCAAACCATACGGATGGTACAGCAAGGAGCGGCAACACAGAACAGTTTT
TTGTTCCCGCCTTGTCTTTCCAAGCCCATGCCGTCTGAAGCCGGAATGTTTCAGACGGCA
TCGCATCAAACTCCATAAATAAACCACATATGCTTGAAATAATACCTTCAACCCCAATGT
ACGCGAAAATCGGCAATCTGTCAGACACAAGAGAGTACCTATGACACAAAAAGAAAAGCA
TTTTGAGGAATATGCCGCCTTGGCAACCCTTCCTTTGCGGGATGTCGTCGTTTACCCGCA
TATGGTTCTGCCGCTGTTTGTCGGCAGACCGAAATCCATCGCCGCACTGGAAAACGCCAT
TACCCGCGAGGAGCCGGTTTTCCTGTTGGCGCAAACCGATGCGGCGGTAGAAGAACCGAT
TGCCGCCGACCTGTATCAGACCGGTACGGTCGCACAAGTCCTGCAAGTGTTGAAACTACC
CGACGGCACGGTAAAAGTATTGGTCGAAGGGCTGTATCGCGGACGTGTTCTGACCATTGA
AGACACGGGCGGTCTGTTCGTTTCCCATATAGAGACGGTCGTGGAAGAAGACACGGGCGG
CAATACCGACCTCGAAGCCGTGCGCCGCACCCTGTTGGCGCAGTTTGAACAATACGCCAA
ACTCAATAAAAAAATCCCCGCCGAAATTATCGGCAGCATCAACGGCATTGCCGAAAACAG
CCGGCTAACCGATACGGTCGCAGCGCATTTGCAGTTGAAACTGGCGCAACGCCAACAGAT
TTTGGAAATTCCCGAAATCGGCAAACGGATGGAATTCCTGCTGGCACAGCTGGAATCCGA
ACTCGACATTATGCAGGCCGAAAAACGCATACGCGGACGCGTCAAACGCCAAATGGAAAA
ATCCCAGCGCGAATATTATCTGAACGAACAGATTAAAGCGATACACAAAGAACTGGGCGA
AGAAGACGAAAACGGCGAACTGGATGCCTTGGAAGCAGATATCAAAAAGGCGGGTATGAC
CAAAGAAGCGGAAGAAAAATGCCTGTCCGAACTGAAAAAGCTCAAAATGATGCCACCGAT
GTCTGCGGAATCCACCGTCGTACGCAACTACATCGACACTTTGCTCGAGCTGCCGTGGAA
GAAAAAATCCCGCGTCAGCAAAGACATCGCCAAAGCCGGACTGGTGCTGGATGCCGACCA
CTACGGCCTGGAAAAAGTCAAAGAACGGATTTTGGAATACCTCGCCGTCCAAAAACGTAT
GGACAAACTCAAAGGCCCGATTCTGTGCCTGGTCGGCCCTCCGGGCGTGGGCAAAACCTC
TTTGGGCGAATCCATCGCCAAAGCAACGGGGCGGAAATATGTCCGCATGGCTTTGGGCGG
CGTGCGCGACGAAAGCGAAATCAGGGGACACCGCCGCACCTATATCGGCTCTATGCCCGG
TAAGATTTTGCAGAATATGGCAAAAGCCGGCGTGAAAAACCCCTTGTTCCTGCTCGACGA
AATCGACAAATTGGGTAACGACTTCCGAGGCGATCCCGCCAGCGCGTTGCTCGAAGTGCT
CGATCCCGAACAAAACAACAAGTTTGCCGATCATTATGCGGAAGTGGATTACGATTTGAG
TGATGTGATGTTTATCGCCACATCCAATAGTCTGAATATTCCGACTCCGTTGCTCGACCG
TATGGAAATCATCCGTCTGTCCGGCTATACCGAAGACGAAAAAATCAATATCGCGATGCA
GTACCTCGTACCGAAGCAAATGAAGCGCAACGGTGTAAAAGAAGGGGAATTGGCAATCGA
AGAAAGCGCGGTGCGCGATATTATCCGTTATTACACCCGAGAGGCGGGCGTGCGTTCGCT
CGACCGCGAAATTGCCAAAATCTGCCGCAAGGTGGTGATGCAGATTACCTTGGACGAAGA
TAAGAAGAGGTTGTCTGAAACCAAGAAAACCAGCAAAGCCAAACCTAAAGCGGTTAAAGT
AAATGAGAAAAATCTGCACGACTATTTGGGTGTGCGCCGCTTCGATTACGGCGTTGCCGA
AAGCGAAAACCGTATCGGGCAGGTTACCGGTTTGGCGTGGACGGAAGTCGGCGGCGAATT

GCTGACCGTCGAAGCCGCAGCATTGCCGGGTAAGGGCGTGATTCAGTGCACCGGCCAGTT
GGGCGATGTGATGAAGGAATCCGTGTCCGCAGCGTGGTCGGTTGTCCGCTCCCGTGCGGA
ATCAGTGGGTTTGGCTCCTGATTTTTACGAGAAAAAAGACATCCACATCCACGTTCCCGA
AGGCGCGACGCCGAAAGACGGCCCTAGTGCGGGTATTGCGATGACCTTGGCGGCGGTATC
TGCCTTTACCAAAATCCCGGTACGCGCCGATGTGGCGATGACGGGCGAAATTACCCTGCG
CGGCGAAGTTTTGCCCATCGGCGGTTTGAAGGAAAAACTGTTGGCCGCCTTGCGCGGCGG
CATCAAACACGTCCTGATTCCGAAAGACAACGTCAAAGACTTGGAAGAAATCCCTGAAAA
CGTGAAAACCGGCCTGACCATCCATCCGGTCAAATGGATAGACGAGGTATTGGCTCTGGG
TTTGGAAAGCCAGCCTGAGCCTTGGGCAGAACCTTCTGGTGCGGAAGCGGCGGCGGAATC
CGCTTCAAAACCAAAACCCCGCAGCAGGGCAACCAAACATTGAAACGCAGGAAATGTGTT
GTAAAAATGCGGTTTCGTCCTGAAAGCCTGTCAAATAGGGTGATTCCGTATTTTTTGCTT
GACACGGCAATTTCAGAATTGCTATAAAGCGAAAGTTGCTCAAGCAGTACAAACCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 274>:

gnm_274

AAAATCCCGTCATTCCCGCGCAGCGGGAATCTAGACATTCAATGCTAAGGCAATTTATCG
GGAATGACTGAAACTCAAAAAACTGGATTCCCACTTTCGTGGGAATGACGGAATGTAGGT
TCGTGGGAATGACGGGATGCAGGTTTCCGTATGGATGGATTCGTCATTCCCGCGCAGGCG
GGAATCTAGACATTCAATGCTAAGACAATTTATCGGGAATGACTGAAACTCAAAAAACTG
GATTCCCACTTTCGTGGGAATGACGAGTGGAAGTTACCCGAAACTTAAAACAAGCGAAAC
CGAACGAACTAGATTCCCACTTTCGTGGGAATGACgyGGwGCAGGyTTCyGTATGGATGG
ATTCGTCATTCCCGCGCAGCGAAATCTAGACATTCAATGCTAAGGCAATTTATCGGAAAT
GACTGAAACTCAAAAAACTGGATTCCCACTTTCGTGGGAATGACGCGATTAGAGTTTCAA
AATTTATTCTAAATAGCTGAAACTCAACGCACTGGATTCCCGCCTGCTCGGAATGACGAG
TAGAAGTTACCCGAAACTTAAAACAAGCGAAACCGAACGAACTGGATTCCCGCTTTCATG
GGAATGACGGGATGCAGGTTCGTAGGAATTACGTGGTGCAGGTTTCCGTACGGATGGATT
CGTCATTCCCGCTCAGGCGGGAATCTAGACATTCAATGCTAAGGCAATTTATCGGAAATG
ACTGAAACTCAAAAAACTGGATTCCCACTTTCGTAGGAATGACGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 275>:

GNMCK14F gnm_275

CCAAAGAAGTGACGGAGTTGATGTGCACAGGACTATGTAAAACGGGCTTGCCGTTTAACC
CATACAAAGAAGAAAGCCAAGGGCAGGAAGTTCAGCAAAGCGCGCACAACATTCGGACAG
GGCGCAAGTTGCCACATTGGGCGGAAAACCGTAGCAGAACCTAATGTACGATAATTGGGA
AGAACGCGGGAAACCGTTTGAAGGAATCGGACGGGGGCGTGGTCGGATCGGCAAACTGAA
GAAAACGGCAAGAGAGAAAAAAGACCCGTAAACCGTTTGAATATAGACGGTTTACGGGTC
TTTGTTTCGCGCAAAGCAAGGGCTAAGGCAGTCAGGCAGCAAATCCCGCAATGTATTAAA
ACAGACGCGTAGAAATGCCGGCTGCCTGGAGCGTTTTTCTTTATTGAATATCATCCTAGC
CGTATCAAGGCTGTATGAATATGTTTTTTACCAATGAATATAATCGGGCTGGACATCTCA
AAGGACACCATAGACGCAACATTGCATAAAACAAACGGAAGTATCCATTACATTAAATTT
AAGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 276>:

gnm_276

TTTACCTGCTCTTTTAATTGCAGCTTCATCAATTCGATGACACCTTGACGGTGTGCCtGC
TCTGCGGCTTCTGTGGTATCAAACAGGCGCAGGGCGATGCGGCCGTCTTTTTCTTTTTGT

AGGCCGAGATAGCCGGTGAGCTGTTGTTTGCCGCGTGCGAATTTGATGGATTCGGGCAGG
GTGCCGATGTCCCATGCGGTGACGTTGTCGCGCTCAAATTCTTGGGTGTTGTCACGGAAG
GTAACGGCGGCAGCTTGACCGAGTTGTTGTTGCAATTCGTGCAGTTTGCGGCCGCCGGCA
AGCTCTTGTCCGCCGTCGTCGATAATGCGGAGGTTGAAATAGCAGTGTTCGGGCAGCCTG
AACGCGGCCCATTCGTCTTGGTTGATTTGCTCGAATATGCGGATGTCGCCTGCGGTTTTG
GCGATGGCTTGGGCGAGTTGGGGCAGGATGGGGGCGTTGCGGTCGGGCATTCGCTTTCGT
TCCACCGTATTCAAAATACCGATGAAGGGGCGATGATTGTCAACCACAATCAAGACAAAG
AATCCACCGTTACCATTACAGGCAATAAAGATATTGCTACAACCGGCAATAACAACAGCT
TGGATAGCAAAAAAGAAATTGCCTACAACGGTTGGTTTGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 277>:

gnm_277

CATTAAAAATAAGTTTTTCCTTAATTTTTCTTAGTGCTTGTTTTTATCTGCTTATTTGTT
GCAATGCCGTCTGAAGCAATGTGCGTTTCAGACGGCATTTGGAATTTCAGTTGGGCAGGG
TATCGGACGGTACGGTTTCCGGCTCTTCTTCATCCGTAGGCGGCATTTCTATCAAATCGG
GCAAAACCAGTTCGCCCAGTTCGGTCAGCGGCGGCAGTTCTTCCAAGCTGTTCAAACCCA
AATCGCTGAGGAACGTTGCCGTTGTCGCCCACAATGCGGGTTTTCCCAATGTGTCCCGAT
GTCCGATGACTTCAATCCACCCCCGATCCTGCAAGTCTGCATCACGTTCTGCGACACCGC
CACGCCGCGTATGCCCTCGATGTCGCCGCGCGTTACGGGCTGCTGGTAGGCGATAATCGC
CAGTGTTTCCATCACGGCGCGGGAGTAGCGCGGCGCACGCTGTTCTTGCAGGCTGCCCAG
CCGCTCGAATGCCGTCTGAACAATCTGAAAACGCCAGCCCTCTTGCGTATGCACCAGTTG
CAACGCCCTATCCTGCCAACGCGTTTTCAACTGCGCCAACACATCAATCAGTTTGTCTTG
CGACAACGGCGGCACACACAGTTCGCGCATAGATTTTTCGGTCAGCGGTTCGGTTTGGGT
CAGCAGTGCGGCTTCAATCAGCGCGTCGGGAGAAATTTTGTCGGTCATACGGGTATCCGT
GCTGAAACGGCATGGGTTTGGATATGCCGTCTGAAATCGGTTGGAGTAGAGAGAAGCTGC
CTGAAAAATATTTTTCAGACGGCATTCTTTATGCTTCCGAAGCTTCTGCCCTTTACGCTC
TGCTTTTCTGGCTTCGCGTATGGCTTTGAGTTCGGCTTCTTTCTGACGGGCTTTTTTGAG
CCAAGTTTCCCATTGGTTCGGCGTTTCGAGGGTGATTCTGCCGATTTTGCCTTCACGGAA
GTCGGTGAGGATGTTTTCGGCGGCTTTTTGGTAGTTGATCCGTCCGCCGCTGAGGACTGC
GCCGCGTTTTTTGGCTATCCATTCGAGCCAAACGTTTTCGTCCCAGTGGCTGCTGGGGTC
TTTGTCGGCTTGGTAGCGTTCTTGCAACATAGGGAGGTAGTGGCGGCGGAGGTAGTCTAA
AAGTTCGAGGGCGACTTCTTCTTCGTCCAACGCGTTGCGTCCGACTGCGCCGCCGGCGGC
AAGGTTGTAGCCGCCTTCTTCGACGATGATTTTCGGCCATAGCATTCCGGGGGTGTCGTA
GAGCCAGAAGTCATCGGCGAGGAAGAGGCGTTGTTCGGCTTTGGTGATGCCGGGTTCGTT
GCCGGTTTTGGCGGATTTTTTGCCTATCATGCCGTTGATGAGGGTGGACTTGCCAACGTT
GGGGATGCCGCAGATGAGGACGCGCAGGGGTTTATCTATGCCTTGGCGGTGGGGAATCAT
GGCACGACAGGCTTGGGTAATTTTGCCGTGTGCGCCTGTTTCGGAGGAATCGAGGGCGAT
GGCGCAGGTGTCGGGGCGGCTGTTATAGTGTTCGAGCCAGATTTTGGTGCGCTCGGGGTC
GGCAAGATCTTGTTTGTTGAGGATTTTAAGTTTGGGTTTACCTTTGGAAAGCTGGGCAAG
CAGGGGGTTTTCGCTGGAGGCGGGCATACGCGCGTCCAGCATTTCAATCACCATATCAAC
GCTTTTTGCACGCTCGGCGATGGCTTTTTTCGCCTTGTTCATATGGCCGGGAAACCATTG
GATTGCCATGTCTGTTCTTTCTTTTCAATATTTGAAATGCCGTCTGAAACGGAGGACGGG
GTTTCAGACGGCATAATGGTTTGACGGAATTAGCGGTCTGACAGGTTTTGCGCCTGTCTG
TGCCGTATCAGCAATTCATAACGCCCTTTCAACCTTCGGGCGAGTTTTTCGACAATATAG
ACCGAACGGTGCTGTCCTCCCGTGCAACCGATGGCGACGGTAACGTAGCTCCTGCTTTCA
TCCTCCAAACGCGGTAACCAATGCGTAACAAACCTTTCGATGTCGTCAACCATTTCCTGC
ACAAGCGGCTGTCCGTCCAAATAATCCCAAACGGGCTTGTCCATACCGGTGTAAGGCCTC
AACTCGGGATCGTAATACGGGTTGGGCAGGCTGCGCATATCGAACATAAAATCCGCGTTG
TTCGGCACACCGTATTTGAACCCGAAGGACTCCAAAATCACCAGCAGCCCGGTACGTTCG
ACCTTCAGCCACTGCCGGACTGCATGGCGGAGCTGTTGGGCATTCATCTTGGAAGTGTCG
ATACAATAGGCGATTTCTTTAAGCGGGAACAGCCATTCCCGTTCTTTCTTTAAGCTTTCC
AACAAGGTCATATCCTGATTGCTCAGAGGATGTCCTCGCCTGGTTTCGGAAAACCGGCGG
ACCAACACGCTTTCTTCCGCCTCGACAAACAAAACTTCAACCCTGTGCCCCAGTCTGCGC

AGAGAGGCAATCTGTTCCCGCGCCTGTCCGATGTCAATGCCGGAACGCACATCGACGCTG
ACCGCCAATTCGGTTTCGTCCGCACGTTCGATATGATACGACACCAGCGCGGGCAACATT
TCCAAAGGCAAATTGTCCACGCAGAAATAACCCGAATCTTCCATTTGGCGCAGTGCGACG
GACTTGCCCGAACCGGACAGGCCGCTAATCAGGACGATCTTCATTGTGTTGTTCGTTTTC
TTTAAGTTGCGTCTGATGGCGTTCCAAAAATTCGCGCGTACTGTCCTTACCGCGCAACTG
CAAAATGTAATTGCGTACCGCCGCCTCAACCAAAACGGCGAGGTTGCGTCCGACGGCGAC
GGGCAGCGTAACCGAACGGACGTTGACGTTGAGGATGGATTCGGTTTCGGTGCGGATGCT
CAACCGGTCAAGCTGCTTCATATACTCGTCGTCCGCCTCGACTAAATTGATAATGAGTTG
CAGGATTTTTTTGGGGCGGATGGAAGTTTCGCCGAAAATATGGCGGATATTGAGTATCCC
CAAGCCGCGCACTTCCAAAAAATCGCGCAGCATAGGCGAACAACGCCCTTCCAGCGTTTC
CGGGCCGATGCGGAACAGCTCGACCGCATCGTCGGCAATCAGGCTGTGGCCGCGCGAAAT
CAGTTCCAATGCCAATTCGCTCTTACCCAGGCCGGAATGCCCGGTAATCAGCACGCCGAT
TTCAAACACATCGAGAAATACGCCGTGTTTGACGGACGATGCCGCCAAGGTGCGTTGCAG
GTAAATCCGCAACACGTCCATCAGATAGGGGCTTTCGAGTTTGGAAGTCAGCAGTGGAAT
ATCGTTTTTATGACAATAGTCGCGCAGTCCCGGGGAAACCGGCAAGCCGTTTGCCACAAT
AACCAAAGACATAGAAATATCGAACAGGTCGCCAAACTGATAACCCGTTTCCCCCGATTC
GAGGCGGTTCAGATATTCCGACTCTGCCAAACCGACCACTTGGATTTGGTTGGGATGAAT
GAAATTCAGGTGTCCGACTAGGGCGAGGACGGGCTTGTCCGCCTCTACGCCGATACGGTT
GTCCGCACCCGAATTGCCGGCGGCCCAAGCGAGTTGCAGTTTGTATTGGTTGTCATCAAA
CAGGCGGCGGACGGAGATACTGGGCATATTATTCTTCAGTCAGGATGGCACGGACTTCTT
CCGCAGAGGAAACCGTCATCAGCGATTCTCTGATGCTTTTTTGGGAAAACTTGCCGGCCA
GTTTGGATAAGACTTCCAAATGCTCGCCGGTTGCGTTTTCCGGAACCAGCAAGATAAAAA
TCAGGGAAACCGGCTTGCCGTCCGGTGCGTCAAATCCGACGGGTTCGCGCGTGCGGATGA
ACGCGCCCGTCGCCTGCTTCACGCCGGCATGACGGCCGTGCGGGATGGCAACGCCCTGCC
CCAAACCGGTCGAACCGAGTTTTTCACGGGCAAAAAGACATTCGAAAACATCAGCATGGG
ACAATGAGGATTCGCGTTCCAAAAGCAGGCCTGCTTCCTCAAACAGCCTTTTTTTACTGC
CTACCTCCATATCCAAAACAATATGGGACAAAGGCAAAATTTCGCCGATAAGGCTCATAA
GCTTCTCTTTTCAGACATCGCAAAACAGAAAGATTGTACCGACTGCCGGGGCAAATCTCA
ATCCCGCATACGGTACGGGCTGACATAACACAGCGTTTTAAAAACATATTTTAACGCTTT
TCGGCACAGATAGAAATGCCGTCCAAAGCAGTTTACGGCTCTTCAGACGGCATTGCCCTG
CCTTATTTCGCGAAAAACGTATGGGCAAAAATGGCGGTAAACCACACCCAACCAATTCTG
TTGTTTGCCAAAAACGTTTCAAAACAGATTTGCCGGACGCGGCTTTTGATGGCGGCATAT
TGGCGGTATTGCAGCAGCAGGACGATGGGGATTGCCGTCCAATATGCCCATGCCGCACCG
ATAACCGCACCCAATACTGCCATCAGCAGGGTAAAGCCTCCGTGACACAGCATAACGGCG
GCGATGTCGTAACGCCCGAACGTGACGGCGGAGGTTTTGATGCCGATTTTCAAATCGTCT
TCTTTGTCCGCCATTGCATAAACCGTGTCATACGCCAGAGTCCATAACACATTGGCGGCA
AAGAGTATCCACGCTTGAGGCGGCACGTTTCCGGCAACGGCGGCAAACGCCATCGGGATA
CCGAAGGAAAAGGCAAGCCCGAGATAGAGTTGGGGAATCGGAAAAAAACGTTTGGTAAAC
GGGTAAGTCAGCGCAAGAAACAGCGCGGGCAGGCTCATCAGCCAAGTCAGATGATTCAGC
GGAATCAGGCACAATGCGGCAAGCAGGCACAAAAATGCCGTCAGCAGCAGCGCTTCTTTT
TTCTTGACCCTGCCCTGTGCGAACGGACGGTTTTTTGTACGCTCGACAGCACCGTCAAAA
TCGCGGTCGGCAAAGTCGTTGATGACGCAGCCGGCACTGCGCATTAAAAACGTGCCGATT
GTAAACGCCGCCAATACCGCCAAATCGGGAATGCCGTCTGAAGCCAGCCACAATGCCCAG
TAGGTCGGCCACAGTAAAAGCAGCGTCCCAATGGGCTTGTCCGCCCGCATCAGGCGCAGG
TACACATCCAAACGGTCGGACAGGCGTAAAAATAAAGGGGATTTAGGATTCATATTGCCG
CGCAGCTTGAAAAAACGGTATTTTATCCGATAAAACGTTTCAGTTCGGGCAGAAAATACT
CGGTCAGCAGCATTTCCTCGCCGTGACGGGAAAACCGAGAACGCCGCGCGGCAAAGTACC
GTCCGCATCCTTCGCCGGCAACGGCAAACTCAAACGCCGAACGCGCCCCTTCCAAATCGG
CTTGAAACAGACGCTCGCCCAAAGGACGCGTGCCGCAGTCCAAAATGTTTTGCCAAAACG
CCGAACCGATACGGCATTCGCTCCTTGCCTCAACAACAGGGATACGGTCCAGCTTCAACA
AAACTTCGCGCACCAGCCTCCCTCCGCATTCCGTCTCCAATTCGCCCAGTTTCAGCAGTT
CCACCGAAAATGTATGCGGCAAGGCGCGCAATGCGGCGGTCAGCGACCGGGTGTGCAGCA
GCCGCACCATCGGCAGGCTGATGCCGTCTGAAATGGCGGCGGGCAAGTCGGGCAGCCATT
TCCCAAATAGGTGTTCCATATTTTTCCCAATCTTTATACCGCGTCTGTTTTTGCCAACTC
CATCCATTCCGCTTCGGAAAAATCGGCTTTCAGACGGCATTTCAAGTAGCTCAGGCTGTC
TTGGGCGATGTGTGCGTCGCGGCTGTCGTGGATGTGGTTGAACACGAGGCTGTGCAAGCG
AATGCCGTATTGTTTGAGCGCGGCGAAACTGAGTAAAGTGTGGTTGATACTGCCGAGCCG

TCCGCTGGTAACGAGGATGACGGGATAGCCTTGCTGACGGATATAATCAATGGTTAACAG
GTTTTCCGTCAGCGGAACCATCAATCCGCCCGCGCCTTCGACCAAAACGACTTCGTACTG
CGCCGCCAATTCTTGTGTGGCGGTGCGGATTTTGTCCAAGTCCAAAGCCCTGCCATCCAG
TCGGGCGGCGAGGTGAGGCGAAGCGGGATAGCTGAAGATTTCGGGCATAGTCAGCCGCCG
TTTGTCGGCTTCCTGCATCGGTATGCCCATAATTTTGCGGTGGACGGCGATGTCGTCGGC
AATGTTTTGGCAACCGGTTTGCACGGGCTTTTGCGTAATCACGCTTTTGCCCTGCTGCAA
CAATTGTTTTGCCAACACGCCGGTGGCGACGGTTTTGCCGATGTCCGTGTCTATGCCGCT
GACGAAGTAAACGCCTTTCATTTGCTGTGTTCCTTCAAGATTTGCACGGTTTTGTCGGCA
AGTTTGGTCAAAACGCCGTCTGAAATGATATAGGGCGGCATCAGATACACCAGCCTGCCG
AACGGGCGCACCCAAATGCCCTGCGCCACGCAGTCCGCTTGAAAACGCGCCATATCCACG
CCTTTTTCCAGCTCGATCACCCCGATGGCACCTAAAACGCGCACGTCTTTCACGCCGCGA
ATGTCCCACGCGGCTTTCAGACGGCCTTTTAAGATGCTTTCAATGCGGCGGATATTTGCC
TGCCAGTCTTGAGACAAAAGCAGTTTGACCGAAGCGCAGGCAACGGCACACGCCAGCGGG
TTTGCCATAAACGTCGGGCCGTGCATAAACACGCCCGCTTCGCCGCGCGAAATCGTTTCG
GTAACTTTTTGCGAAGTGATTGCTGCCGCCAGCGTCATATAGCCGCCGCTCAAACCCTTG
CCAATACACATAATATCCGGCACGACCTCCGCGTGTTCGCAGGCAAACATCTTGCCCGTG
CGCCCGAATCCAGTGGCGATTTCGTCAAAAATCAGCATGATATCAAATTCGTCGCACAAA
TCGTGCAATCCGCGAAGATACTGCGGATGATAAAAATACATGCCGCCCGCGCCCTGCACG
ACCGGCTCTAAAATAAAGGCGGCAATATCCGCATGATGCACTTCAAATAAGGCGCGGACA
GGCTGCAAATCCGCCCCGTCCCATTCATCGTCGAAACGGCTTTTCGGATTATCGACAAAA
TAACGCTGCGGCAACGCGCTGCCGAAAATATGGTGCATCCCCGTTTCCGGATCGCAGACG
GACATCGCGTTCCAAGTATCGCCGTGATACCCGCGGCGCACCGTCGCGATATTCTGCTTC
GCCGTCAAACCCCGCGCCTGCTGGTATTGCACTGCCATCTTCAGCGCAACTTCCACCGAA
ATCGAACCCGAATCCGCATAAAAAATACGGTTCAGCCCCTGCGGCAAAATCCCGACCAAC
AACTTGCCCAGCTCCACCGCTGGCTCGTGCGTCAAACCACCGAACATCACGTGCGCCATT
TGTTTCATCTGCGTCTCAACCGCCTGATTCAAAACAGGATGATTGTAGCCGTGTATCGCA
CACCACCAGGAGGACATCCCGTCAATCAGCCGCGTGCCGTCCGCCAATTCGATAAACACC
CCTTCTGCACGTTTGACAGGATAAACGGGCAGCGGATCGGTCATGGAAGTATAGGGATGA
AGCAGATGGGTACGGTCGAAATCAAGCAATGATGATATGTGTTGATGTTCAGACGGCATA
AGTTTCTCTCTTTTCTTCTTACTGTATTCAAACGCAAAACGCGTATTCTACTCCGACAGA
CCGTTTCCCACACCTCTCCATCCGTTTCGGGCGCAAAACCGCGAAACAAATCGTCCGCAG
TATAAGCGCACACCGTTTCGCATTCCCCAAGCCCGATTGGAATCAGACGGCCCAACGCCC
AATACCGTTTCACGCAGCCTCCGCCCAACGCTTCAATCAGTCATAGATATAGTGGATTAA
CAAAAATCAGGACAAGGCAACGAAGCCGCAGACAGTACAAATAGTACGGCAAGGCGAGGT
AACGCCGTACTGGTTTAAATTTAATCCACTATAAAACGGCAATCCATACGATACAGATCA
TAGCAACAGCCATCGCAACAGCGTTAGCAAAATCAGGGGACTCCGACATAGGCGCATAGC
ACCTACCGATGCACGGCTCCTCATTCGGCTCTATGAATACCATACCCATCACAAAATCCA
CCGCCAAAACCAGGCACGGCTTCTTATACTTATGATAGATTTCCACCATCCTGTCCCATA
TATACCAAACATTCATACCGTATATCCCGCAGGCAACAAATTCCGATTGAAGGTTACAGC
CCTATTTTATAGTGGATTAACAAAAATCAGGACAAGGCAACGAAGCCGCAGACAGTACAA
ATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCT
AAGGCGAGGTAACGCCGTACTGGTTTTTGTTAATCTACTATATTTTCAAACCGGAAAAAT
GCCGTCTGAACCTTCAGACGGCATTCCATTCATATTTATTCGTCTTTTTTGTGTTCGATG
GCGTTTCGGGAACGATTGCCGCCGTAAGGCTCTTCAACCGTATATTCTCCCTCGATAATA
TCGTCATCGCGGGAAAAGCCCTCTTTTCTGCCCGATTGGTTCATGTTGAAAAAATTTTCC
GCACCTCCTGCCTGCAACACTGCCCCTCCCTTAAACGGCAGCAGCAGCAATACCGCCAAC
ACCGAGGATACGAATCCCGGACTCATCAGACACACAGCCGCCACCGTATAACGGATAGGC
CACAACATCTGATAAACGGATACCCTCCCGCCGCTTCTCATTGCCGCGCCCGCCAATAAA
AGACCGGACAGCCCCGTATGCCTGAGCATCAGCACGCCGGCGGCAAAACCTGCCGCCATC
AAAAACAACGTCCAGCCGCCGCCCAGCCAATCGGCAACCCACACAATCGACATAATCTCC
AAAAACAGCAGCACCAAAAAACCGATACCGAAAAATCTCATTGACCGTCATCCTTATATT
TAAGTAAACAGCAAACCGCCCGAACAGGACTCCAAGCGAGCTGCCTGTAAATGATTACAA
AACCATGTGCTTCAAGCCGAAACAATGTGAAATCTCGCAATATAGTGGATTAACAAAAAC
CAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGATCAATTCTCTAAGGTGCTGAAGCACC
AAGTGAATCGGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 278>:

gnm_278

GATGATGATCTTCCTATAGAAATAAGCCTGCCAAACTGGGTTCCGGGCAGCTATCTGATT
CGGGATTTTTCCCGCCACATCACTTCTATCCATGCATCCTGTAACGGCACGTCCATGCCG
CTCGAACAAATTGCCAAAAACCGCTGGCATGCCGCCGCCGTACGCGGCGAGTGGCAAATC
CGCTACACCGTATATGCATTCGATTTGTCGGTTCGAGGTTCTTTCCTGACGACAGAACGC
GGTTTTTTTGACGGATCGTGCCTGTTTTTGAAAGTCGAAGGAACGGAAACGCTGCCGCAC
CGCTTGGAATTGACGGGTATTCCGTCCGAATGGCGTATTGCCACAACGCTGCCGGAAACA
GGGAGGTTTGTCTTTCAGGCGGCATCTTATGCCGAATTGATTGACCGACCTGTCGAGATG
GGCTTGATTGAATTTTTAGATTTTGAGGCGGCAGGCATTCCGCACACAATTGCCTTAAGC
GGCATATATCCCGATTTCGACCGCAACAGGCTGGTTTCGGATATCAAAAAAATCTGCGAA
ACAGAACTGGCGGTGTTTTCCTCCCCTGCCCCGTTTCAAAAATATTTGTTCCTGCTCCAC
GTCGGCGACCATATTTACGGCGGTTTGGAACACACCGACAGCACCGCCCTGCTCGCCGAC
CGCCACAGCCTTCCGCCGTACGGTATGACCGATGCCGACGATACCTACACCACATTGCTC
GGACTTTTCTCCCACGAATATTTTCACGCGTGGAACGTCAAATCCATCAAACCTGCCGCG
TTCGTCCCTTATGACCTCGACAAAGAAAACTATACCGAACAACTATGGGCATTCGAAGGT
ATTACATCCTATTACGACGATTTGTTTTTGGCACGCAGCCGCACCATCTCGCCCGAATCT
TATTTAAACCTGCTGGCACAAGGCATTACGCGCGTACAACAAACCCGCGGCCGTTTGAGG
CAGACCTTGGCGGAATCGAGTTTTACCGCGTGGAACAAATTTTACAAACCGGATGAAAAC
AGCCCCAACGCCATCGTCAGCTACTACCAGAAAGGCGCGCTTGCCGCATTGTGCCTTGAT
CTGATAATACGCAACCGAAGCAACGGCAGACATTCTCTCGATACGTTAATGGACAAACTC
TATCGGGAGTGGAGGGACACACACTCGGGTATTCCGGAAAAACACTGGCAAATCCGCTGT
CAGGAAATTACCGGCTTGGATTTGGAAGATTTTTTCCAAAAAGCGTTATACAGTACCGAA
GATTTGCCGCTTGCCGAATGCCTGGCAACCGCAGGCGTGGGACTGACCTTCCTGCCGCTT
CCCCGACAACACGGCGGCGGATACGCAGAACACATCTGCCCCGTCCCGTCGGCAGGCGAT
TTTGGCGCACGTTTCAAACAAAACACCGACCACATCGTCCTGACCCATGTCTTCAACGGC
GGCAGCGCGGAATCTGCGGCACTGTGCCCGCAAGACAAAATCATTGCTTTAGACGGTTAT
GCCTGCACCGACTTTACCGCACAATGGGCCCGATACCACGTCAATGCAAAAATCAATATC
CACTTCTTCCGTGCCGGCATATTGCGTCAAACCGTCTTGACGGTTCAGGCAGCGGCAGCG
GATACTGCCATCCTACATATCACAGACCGGAACCTGTTGGACAACTGGTTGTTCGGTTAA
ACTTTCAGACGGCATTGCACACAAAATGCCGTCTGAAAAACAACCGCAAAGTAAAGGAAA
CAAAATGGCCATTCTGAAACTTGACGAACACCTCTATATTTCTCCGCAACTGACCAAAGC
CGATGCGGAACAAATCGCGCAACTGGGCATCAAAACCGTCATCTGCAACCGCCCCGACCG
CGAAGAAGAATCGCAACCCGACTTCGCCCAAATCAAACAGTGGCTGGAACAAGCAGGCGT
TACTGGATTCCATCACCAACCCGTTACCGCACGCGACATCCAAAAACACGATGTCGAAAC
CTTCCGCCAACTCATCGGACAAGCCGAATATCCCGTCCTTGCCTATTGCCGGACCGGTAC
GCGCTGCTCCCTCCTGTGGGGCTTCCGCCGGGCGGCAGAAGGTATGCCGGTTGACGAAAT
CATCCGCCGCGCCCAAGCGGCAGGCGTAAATTTGGAAAACTTCAGAGAGCGGCTGGACAA
CGCCCGCGTCTGATTACAAGCCGAAACGTTTAAACCACACCTTCAAGCGGCATTCCACCG
CAACTTGAAAAAGAGGACGGCAAACCTTACTGCCGTCCTCTGTCCTTCTCCGTTTTTACA
GTGGGAGACCTTTGCAAAAATAGTCTGTTAACGAAATTTGACGCATAAAAATGCGCCAAA
AAATTTTCAATTGCCTAAAACCTTCCTAATATTGAGCAAAAAGTAGGAAAAATCAGAAAA
GTTTTGCATTTTGAAAATGAGATTGAGCATAAAATTTTAGTAACCTATGTTATTGCAAAG
GTCTCAGTGGGTATAGCGGATTAACAAAAACCAGTACGGCGTTGCCTCGCCTTAACTCAA
AGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACT
GTCTACGGCTTCGTTGCCTTGTCCTGATTTTTGTTAATCCACTATAAAAATTAGAAATGC
ACATTTTCATTATTCTCGCGCAGGCAGGACTCCAGACTTACCCATTTCAGTAATGTTTGA
AAATAAAAGAAAAATCAGATGTTTGTATTCCCGCCTGCGCAGAAATGGAGACGGTGCTCT
GTCGTCTCATTTTTGTTTTAATCAACTATATATAGCTGATTAAACATAAGAAATGCCGTC
TGAAAGACTTTCAGACGGCATTCGTTCAAGCGTCGAACTTTATTGCGCCTTGGTTTCGGT
TACAAAACCGATTTTGGTGATTCCTGCCTGACGGGCGGCTTCTAAAGCTTTGTTTACATA
ATCGTATTCCACCGCCTTGTCTGCCGCAATCGCCACAATCACGTTTTCATTCTGCTCCTT
GGCGGCTTTCAGACGGCTTTCCACTTCCCCGATTTCCACTTTGCTTGCAGAATCCCCGCC

GACATAATAGCCGCCGTTCGCATCAATCGTCAGGCGCAGGGGGTCTTTAGGCTGTTTGTC
CTGCTTGTTTGTCTGCTCGGACGCGGTCGGCAGTTCCAAAGGGATGGAATGCGTCAGCAC
CGGCATAGTAATCATAAACACAATCAGCAACACCAGCATCACGTCCACCAACGGCGTAAC
GTTGATGTCGGACATCGGAGAATCGTCGCCGGAATTCATCGAACCAAATGCCATAATCAG
CTATCCTTTTGATTAAGCAGGCGGACGTGCAAATCGTGCGCCATCGCATCCAAATCCTGG
GTCAGTATTTTTGTGCCGCGATTGAGGAAGTTGTATGCCAACACCGCCGGAATCGCCACG
AACAAACCCGCCGCCGTCGCCACCAGTGCCTCGCCAATCGGGCCGGCAACCGCCGCAATA
CTCATCTGCCCGCTTTGCCCGATATTGATCAGGGCGTGGTAAATCCCCCAAACCGTGCCG
AACAGCCCGATAAACGGCGCGGTCGCGCCGATGGAGGCAAGCGCGGTCATCCCGTAATCA
AACCGGCGCATAATCTGCGCCATACTGTTGCGGATTTGAATGACCAAATACTCGTTCAAC
GGCAAAGCCTGCGCCAGTTCGGACGCTTCGTTTCGGCGGTAGTTGCGGTAAGACTGCAAT
GCCTCTTGCGCCAGTTTGGACAAAGGCGCATCGACGGCGCGCACTTTTTCGACCGCGTCG
TTCAGCGACAAAGTATCGCGCATATGCCGTTTGACGGCGGCATTCCCTTTGCGCGCCCGA
TACAGCTTGATGCAGCGCAAGACAACCAAACACCACGTTACGATACTCATCAACAGCATC
AACACAAACACACCAATCAGGACGGGATCGCCCGATTCAAACACTAATTTCAAATTCATA
ATGATTCCAACACTGAAAAAACCAATCAAACATCCAAGCTGCCGCAAACCGCTGCGGCAA
CCGCCTAATTCAATTCAAACTTGACGGGGACTTTAAACTCCGTCCAGGCATTGGCTTGAA
AATGCCCGTTTTGCGCCGCCTTGCGTGCCGCATTGTCCAACCGGGAAAAACCACTGCTTT
TCACGATTTTAACGGACTCAACATGACCGCCCGGAGAAACCAAAACGCTCAAAACAACCG
TACCCTGCTCGTCATTCTCCATAGAAAGCGTGGGATAAGCCGGGCGCGGAATGCTGCCGT
TGGCGCGTAAAGGATTGCCTTTGCTGCTGCCGGCTCCTTCCCCGTGTTCGCCTTTGACAC
CGCCGCTACCTTTACCGCTGCCTTCTCCGCGCCCCGTTCCGTCTCCTTTGGTACCAGTTC
CCTTATCTTCCCCATTGCCCTGCTCGCTGTCTGCTTTGGCAGAAGCATTGCCGGGATGTT
CGGCAGGTTTTTCAGACGGCTTCTCGACCGGTTTTTCCGCCGGTTTCGGGACAGGCTTCG
CTTCCGGCTTAGGCTCTGGTTTCGGTTTTTCTTCGGGTTTCGGCTTTTCTTCAGGTTTCG
GCTCTTCCTTAGGCTGCTGAATATCCGCATCCGCCTTTTTCGTAACCACCGGCTTCAAAA
CCGGCTTGGGCGGCTCGACAGGTTTGGGCGGCTCGGGCACGGGTTGCGGTTCGGGCGCAG
CAGGCGCGCCTGCACCTTCGGGGGCGCCGTCCCCTCCGCCAAAATCGCCCAAATCGACAA
ATTCAATAACATTGCCTGACTCTATCACGGGCAGCTTGTGCGCCTGCCAGAGCAATGCCA
CCATTGCCAAATGCAGCAGTGCGACGGAAAACACGACTGCGGGGGTTAAAATTCGTTCTT
TATCCATAATTCGGGCATAATAATAGCAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 279>:

gnm_279

ACGACCAAGGTACGCGCAATCTGGTGGCGGCAAGTATCGCCATCGATATGGTCAAAGTCC
TGTCCCGCGAAGGCGTGAAAGATTTCCACTTCTATACGCTTAACCGCAGCGAGCTGACTT
ACGCCATTTGCCATATTTTAGGCGTGCGCCCTTAAAGCCGTATCAAACAGTTTCAGACGG
CATCTAAGGTGTCTAAAAAGCAAAACACCGCCCCATCCGAGCCATTCTGATTTACAATAC
CGGCCGATTCGGATTGAACCGGTCCTTACAAAATCCAACTGGAGAGTTCAACATGACAAC
ATTACATTTCTCAGGCTTCCCGCGTGTCGGCGCCTTCCGCGAATTGAAATTCGCACAAGA
AAAATACTGGCGCAAAGAAATCAGCGAGCAAGAATTGCTGGCTGTTGCTAAAGACTTGCG
CGAGAAAAACTGGAAACACCAGGTCGCTGCCAACGCCGATTTCGTTGCCGTAGGCGATTT
CACTTTCTACGACCACATCCTCGACCTGCAAGTCGCCACCGGCGCGATTCCCGCCCGCTT
CGGCTTCGACAGCCAAAACCTGTCTTTGGAACAATTCTTCCAACTGGCGCGCGGTAACAA
AGACCAATTCGCTATCGAAATGACCAAATGGTTCGACACCAACTACCACTACTTGGTGCC
TGAATTCCACGCCGATACCGAATTCAAAGCCAATGCCAAACACTATGTTCAACAACTGCA
AGAAGCCCAAGCCCTCGGTCTGAAAGCCAAACCGACCGTTGTAGGTCCGTTGACTTTCCT
GTGGGTGGGTAAAGAAAAAGGCGCCGTCGAATTCGACCGTCTGAGCCTGTTGCCTAAACT
GTTGCCTGTTTACGTTGAAATCCTGACTGCTTTGGTTGAAGCCGGTGCCGAGTGGATTCA
AATCGACGAGCCTGCTTTGGCTGTCGATTTGCCTAAAGAATGGGTGGAAGCCTACAAAGA
CGTTTACGCTACTTTGAGCAAAGTAAGTGCCAAAATCCTGTTGAGCACTTACTTCGGTTC
TGTTGCCGAACACGCCGCATTGTTGAAAGCCCTGCCTGTTGACGGTCTGCACATCGACTT
GGTACGCGCCCCCGAGCAACTGGACGCGTTCGCCGACTACGACAAAGTCCTGTCTGCCGG

CGTGATTGACGGCCGCAACATTTGGCGCGCCAACCTGAACAAAGTTTTGGAAACTGTCGA
GCCTCTGCAAGCCAAACTGGGTGACCGTTTGTGGATTTCCAGCTCTTGCTCGCTGCTGCA
CACTCCATTTGACTTGTCAGTTGAAGAAAAACTGAAAGCCAACAAACCCGACCTGTACTC
TTGGTTGGCATTCACCCTGCAAAAAACCCAAGAATTGCGCGTTCTGAAAGCTGCATTGAA
CGAAGGCCGTGATTCTGTTGCCGAAGAACTCGCCGCCAGCCAAGCTGCTGCCGACTCCCG
TGCCAACAGCAGCGAAATCCATCGTGCAGACGTTGCCAAACGCCTGGCCGATTTGCCTGC
CAACGCAGACCAACGCAAATCTCCATTTGCCGACCGTATCAAAGCGCAACAAGCATGGTT
GAACCTACCTCTGCTACCGACTACCAACATCGGTTCTTTCCCGCAAACCACCGAAATCCG
CCAGGCACGCTCAGCCTTCAAAAAAGGCGAACTGTCTGCCGCCGATTACGAAGCCGCGAT
GAAAAAAGAAATCGCCTTGGTGGTTGAAGAGCAAGAAAAACTGGACTTGGACGTACTGGT
ACACGGCGAAGCCGAGCGTAACGACATGGTTGAATACTTCGGCGAATTGTTGAGCGGTTT
TGCATTCACTCAATACGGCTGGGTACAAAGCTACGGCTCACGCTGCGTGAAACCACCGAT
TATCTTTGGCGACGTAAGCCGTCCTGAAGCCATGACCGTGGCTTGGTCTACTTACGCACA
AAGCCTGACCAAACGCCCGATGAAAGGTATGTTGACCGGCCCTGTAACCATTCTGCAATG
GTCTTTCGTCCGCAACGACATTCCTCGCTCTACCGTGTGCAAACAAATCGCACTGGCTCT
GAACGACGAAGTATTGGATCTGGAAAAAGCCGGCATCAAAGTCATCCAAATTGACGAACC
TGCCATCCGCGAAGGCTTGCCGCTGAAACGCGCCGATTGGGATGCCTACCTGAACTGGGC
GGGCGAATCCTTCCGCCTGTCCTCTGCCGGTTGCGAAGACAGCACCCAAATCCACACTCA
TATGTGTTACTCCGAGTTCAACGATATCCTGCCTGCGATTGCTGCAATGGATGCGGACGT
GATCACCATCGAGACTTCACGTTCCGACATGGAACTCTTGACCGCGTTCGGCGAATTCCA
ATACCCGAACGACATCGGCCCGGGGGTTTACGACATCCACAGCCCGCGCGTACCGACAGA
AGCCGAAGTGGAGCACCTGTTGCGCAAAGCCATCGAGGTTGTACCGGTTGAACGTCTGTG
GGTTAACCCGGACTGCGGCCTGAAAACACGCGGCTGGAAAGAAACTCTGGAACAACTCCA
AGTAATGATGAACGTAACCCGAAAACTGCGTGCCGAATTGGCGAAATAAGCCGAGACCGT
ATGAATAAATACCGTCTGAAAGCCTTTCAGACGGTATTTTGTCCTGATTTGCGGCGCAAG
GGCGCAGTTGCCGGAAAATCTTTTCATTGCAGCTTGTTTTTTTCTAATTCGGCTTTATAT
GTGGGAAACAGGCAAATCGGAGTTGTGTTTGATAGTTTTAAATAATTTATATTATTTGAA
CTATAAATTATACAAATCATTTTGCATGGGGTAGAATGCCCAGCGATTCACAATTATTTC
TCAAACCAATCTATTAAGGAGCTTAAAATGGCTTTGCAAGATCGTACCGGTCAAAAAGTA
CCTTCCGTAGTATTCCGCACCCGCGTCGGCGACACTTGGAAAGATGTGTCTACCGATGAT
TTGTTCAAAGGCAAAAAAGTAGTCGTATTCTCCCTGCCCGGTGCATTTACCCCGACTTGT
TCTTCTTCACACCTGCCGCGTTACAACGAATTGTTCGGCGCGTTCAAAGAAAACGGCGTT
GACGCAATCTACTGCGTATCTGTAAACGATACGTTCGTAATGAACGCTTGGGCTGCCGAA
GAAGAATCCGACAACATCTACATGATTCCTGACGGCAACGGCGAATTTACCGAAGGTATG
GGTATGCTGGTCGGTAAAGAAGACTTGGGCTTCGGTAAACGCTCTTGGCGTTACTCCATG
CTGGTTAACGACGGCGTGGTTGAAAAAATGTTCATCGAACCTGAAGAACCGGGCGATCCG
TTCAAAGTATCCGATGCAGATACTATGCTGCAATTCGTTGCTCCCGATTGGAAGGCTCAA
GAGTCTGTGGCAATTTTCACTAAACCAGGTTGCCAATTCTGCGCTAAAGCCAAACAAGCT
TTGCAAGACAAAGGTTTGTCTTACGAAGAAATCGTATTGGGCAAAGATGCAACCGTCACT
TCCGTTCGCGCCATTACCGGCAAGATGACTGCCCCTCAAGTCTTCATCGGCGGTAAATAC
ATCGGCGGCAGCGAAGATTTGGAAGCTTACTTGGCTAAAAACTGATAGCTGTTTGCTTAA
GGCGGTTTAATTAAACTGTCTGATATACCGGATAGAGTTATTCGGGCGGTTCTACACTAC
CGCTCCGAATAACTCTATATTTATAAGAGAATTTGGATATTGTTGCACTCAATCGAAATT
TTGTTTTTATTTATCTGAATGATGTTTTTGATTGGGAAAATATTTAAATGCCGTCTGAAA
CCGATATGTTCTGTGTCGGCAATGTTTCAGACGAAAACGGAAGGACAAAGATTATGAAAA
AAATTCAAGCGGATGTCGTCGTAATCGGCGGCGGTACTGCCGGTATGGGTGCGTTTCGCA
ATGCCCGTTTACATTCGGATAATGTTTACCTGATTGAAAACAATGTGTTCGGCACGACCT
GCGCGCGCGTGGGCTGTATGCCTTCCAAACTCTTGATTGCCGCCGCAGAGGCGCGTCATC
ACGCATTGCATACCGACCCGTTCGGCGTGCATTTGGACAAAGACAGCATCGTCGTCAACG
GTGAAGAGGTCATGCAGCGCGTTAAATCCGAGCGTGACCGTTTTGTCGGCTTTGTCGTTG
CCGATGTGGAAGAGTGGCCTGCCGACAAGCGCATTATGGGTTCGGCTAAATTTATCGACG
AGCATACCGTCCAAATCGACGAGCATACTCAAATTACGGCAAAAAGTTTCGTGATTGCTA
CCGGTTCGCGTCCCGTCATCCTGCCGCAATGGCAGTCTTTGGGCAATCGTTTGATTATCA
ACGATGACGTTTTCTCATGGGATACGCTGCCTAAGCGCGTTGCCGTGTTCGGGCCGGGTG
TTATCGGTTTGGAACTGGGTCAGGCATTGCACCGTTTGGGCGTGAAAGTTGAAATTTTCG
GTTTGGGCGGAATCATCGGCGGCATTTCCGACCCCGTCGTTTCAGACGAGGCGAACGCCG
TGTTCGGCGAAGAATTGAAACTGCATCTGGATGCTAAAACCGAGGTCAAACTCGATGCAG

ACGGCAATGTAGAAGTCCATTGGGAGCAGGATGGCGAAAAAGGCGTATTTGTTGCCGAAT
ATATGCTGGCAGCCGTGGGCCGCCGTCCGAACGTTGACAATATCGGTTTGGAAAATATCA
ATATCGAAAAAGATGCGCGCGGCGTACCTGTTGCCGACCCGCTGACCATGCAGACCAGTA
TTCCGCATATCTTCATCGCAGGCGATGCGTCCAACCAACTGCCTCTGCTGCATGAAGCTG
CCGACCAAGGCAAGATTGCCGGCGATAACGCGGGCCGCTACCCGAATATCGGCGGCGGTT
TGCGGCGCAGCACCATCGGCGTGGTGTTTACCAGTCCGCAAATCGGCTTTGTCGGTCTGA
AATACGCGCAGGTTGCCGCGCAATACCAAGCCGACGAATTTGTCATCGGCGAAGTATCGT
TCAAAAACCAAGGCCGCAGCCGCGTGATGCTGGTGAACAAAGGCCATATGCGCCTGTATG
CCGAAAAAGCCACCGGCCGCTTTATCGGCGCGGAAATCGTAGGCCCTGCCGCCGAACATT
TGGCGCACCTGTTGGCTTGGGCACATCAAATGAAGATGACCGTTCCGCAAATGCTGGATA
TGCCGTTCTACCATCCCGTTATCGAGGAAGGTCTGCGTACCGCGTTGCGCGATGCCGATG
CGAAATTGAAAGCCTGACCGATATGGCAAAACAATGCCGTCTGAAATTTTTTCAGACGGC
ATTTTGTTTTTGGGGATGGGGTCGGATGCTGATACCGTGTCGGGAAGGGGGCGGCAAAAC
TAAAAATCTTTCTATTTAATCTGCTGTTTCCACGCGTGTTTGTCAAAATCTATCAGTTTG
TTTTTAAAATACACTGTTCAAAATGGGATAAAACAGGTAAATTAACGTTTATGTAACCCA
GTGTAGCAATGGGTTTACGGTTTTTGAGTCGATATATAACTACAGAGGAATTGACTATGT
CTGCCAAACCGCGTCCTGTTTATCTGGATTTGCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 280>:

gnm_280

GCATACACGCCTTAACCTTAATTTGCAAAATGACCGTGCCTAAACAATGCCGTCTGAAAG
TGGAGATTGGTTTTCAGACGGCATCGCCCGAGAGATGTCGGAAATGGACTTTATCCCCAT
TCCTTTTCGGTTGAAACCCGTCTGTTTATGGCGATAGAATCTAATCGGAGGGTAGTCTCG
TTCGGGCAACACGCAGTGCGGTGCTTGATGTGCCGTCCCCTGTTGAAACATATAAAGCTC
GGAGAAAGTATAGTGGATTAAATTTAAACCAGTACGGCGTTGCCTCGCCTTGCCGTACTA
TTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTAAATTTAATCCACTATATATAA
GGGCATCATTCCTGCACCGGCAAGAATCCGAACCCGAACGTTTGAAAACAATCCCGAATC
TCCGAATTCCCGCCTGTGTGGGAATGACGAAAAAACAAGCATTCATTTGCCCCGAAGCAG
TTAATCAACCCTTTCCGCCACACACCTATTCCAATATCCAATGAAAACCATCACAGAAAC
CCTAAATCTCGCCCCGAAAGGCAAAAACTTCCTGACCGCCGATTGGCCCGCGCCCGCCAA
TGTGAAAACCCTGATTACCACGCGCAACGGCGGCGTGAGCAGAGGTGCGTATCAGAGTTT
GAACCTCGGTACGCACGTCGGCGACAATCCCGAAGCCGTGCGCCGCAACCGCGAAATCGT
GCAACAGCAGGTCGGACTGCCCGTTGCCTACCTCAATCAAATCCACAGCACCGTCGTCGT
CAATGCTGCCGAAGCGTTGGGAGGCACACCCGATGCGGACGCTTCCGTAGACGACACGGG
CAAGGTTGCCTGTGCCGTGATGACCGCAGACTGCCTGCCCGTTCTATTTTGCGACAGGGC
GGGTACGGCGGTTGCCGCCGCACACGCGGGCTGGCGCGGTTTGGCGGGCGGCGTACTGCA
AAACACCATAGCCGCAATGAAGGTTCCGCCCGTCGAAATGATGGCGTATCTCGGCCCCGC
CATCAGTGCGGATGCGTTTGAAGTCGGACAGGATGTGTTTGATGCGTTCTGCACGCCCAT
GCCCGAAGCCGCCACCGCATTTGAAGGCATAGGCAGCGGCAAATTCCTTGCCGACCTTTA
CGCGCTCGCCCGCCTGATTCTGAAGCGCGAAGGCGTGGGCGGCGTATATGGCGGCACGCA
TTGTACGGTTTTGGAACGGGATACTTTCTTTTCCTACCGCCGCGACGGAGCGACAGGGCG
TATGGCGAGCCTGATTTGGCTGGACGGCAATGCCGTCTGAACACGCCGCTGATATAATCT
ACCGACTTTGTGTTTTTGAGAAAGGCAAGCCATGAACAAACTGTTTCTTACTGCCGCAGT
GCTGATGCTGGGCGCGTGCGGTTTCCACCTGAAAGGTGCAGACGGCATTTCTCCGCCGCT
GACCTACCGGAGCTGGCACATCGAAGGCGGACAGGCATTGCGGTTTCCTTTGGAAACCGC
GCTGTATCAGGCTTCGGGCAGGGTGGACGATGCTGCCGGCGCGCAGATGACCCTGCGTAT
AGACAGCGTTTCCCAAAACAAGGAAACCTACACCGTTACCCGTGCGGCAGTCATCAACGA
ATATCTTTTGATATTGACGGTTGAAGCGCAGGTATTGAAACGCGGCGAGCCGGTCGGTAA
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 281>:

gnm_281

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ACCGCGCCTTCGAGGGGCGTGTCCGCCTGCCATCGGCGCGCCCTGCCGGGACCGGCGTTA
TAGCCTGCGGTGGCGAGGACTTCGTTGTTTTGCArGCGGCGTTTGGTGTCCGCCATATAC
CACGTCCCCATACGGATATTGCCGTCGGCGGTGTAAAGTTGTGCGGCATCCATACCGATT
TTGCCGGCGATTTCGCGCGCGGTGGCAGGCATAACCTGCATCAGCCCCTGCGCGCCTACG
CGGGATTGCGCGCCTATAACGAAGCGGCTTTCCTGACGAATCAGCCCATAAACCCAAGCC
GGATCGACATTAACATTTTGCGCGTGGCGGATTACCGTGTCTTTAAACGGCGAAATATAG
CGCAAGGTGTAGTTGAGTTTGCGGTCGGTGCGTTCCGCGCTGTTGACCGCCATATCGTAA
AAACCGTGGTCGAACGCGGTTTGCGCGGCGGTCAGCAGCTTGTCTTCGTCAAAGCCGCGT
GTGGCAAAACGCCATTCCGCCTGAGCCTGACGGCGCATTTTTGCATCACCGGCAGATTGG
CTGTTTTGGAACAGTACCAGTGCGCGTTTGACTGCACCGTCTTCCGCCATGCGGCGGACG

CTGTTTTTGCCGGCATCGGGCACATTGTTGCGCGTATCGATTTTCCGACCCAATTCTTCC
CCTGCCAGCACCGCATAAAAATTCCTGCCCGTCGCTGCCGCCTGTTTGTAAAGTTTTTCC
GCCTCTTGCGTGTTGCCCGTTGCGGCGCGGCTGCGTGCCAGCCAGTAGAGCCAGGTCGGG
CTTTTTTGCAGTTTTTCGGGCATATGCGAGATAACGGAGGCCAGCTCGTCCCAACGTCGG
GCGCGCAAGGCGGCGCGGGCGTACCACTCGATTTGGTCGTCGGTCAGTTGGCGGCGGTCG
GCAACCTTGCCGTAATAGTCCAAGGCGGCAGGCACATTGAGGTTTTGCGACTGATAATGC
CCCAATACGCCCCACGCGAAACTGCGTTGTTCGAGGCTTAAACCGCTTTCCATTTCGGAC
AGCAGGGCGGCGGCATTCGGCGATTTGCGTGCTTCTTTGCCGATGACGTTCAACAGGGCA
TATTCGCGCGAACCTTGTGTACCGCCGTCAAACGGGCTGCCCAATGCGGCGGCAAGGTTG
CGTGCGTCTGTGGTTTGGCGGCCGGCCAGCAGTCCGCGCACGCGCCTCCAGGCGTCGTTG
CCGTCCAACAAGCCGGATGCGGCTGCCTGTTCCAACAGTTTGGTGCAGCCCGAAGGCAGT
TTGCCCGTATTTTTGACCAGTTCAGCGGCACGCGTATAGTCGTTGCGGCTCGAATCGGCG
TAGCATTCGACTTCTTGGGCGCGCCCTGCCGGTTCGAGTTTGGCGTATTCCTGTGCAAAC
AGCGTCCACTGTCTGCGTGCGCCCAAAGACTTCAGCCACTCGTTGCGGACATTTTCCGCC
ATCGCGCTGTCGCCGGCGTTTTCCAAATAGGCGGCGACGGCGGCATCGTTTTTCTGTTTC
ACTGCATCCAGTGCGGACGGGTAGCCGCCGTAATCTGCCAGCGTTTTTCTTTCGGGTTCG
GCAGGGCGGGTGGGAACGCTTGCCGAAAGGTCGGCAGTTTCTATATTGTCTGCCGGGGTC
TTGCCGGCTGGCAGTGTGTTTGTCGAAGAACACGCGGCAAGCACCAGGGCCGCCAGCAGC
GGCAGGGAATGCTTCATAGAGGGTAGGTACATCGGATTTCCTTAAGAATCGGAACCCTGA
ACGGTCAGGGTTGGAAAAGACAAAATGCCGTCTGAACAGGCGTTTGCCCGAATTATATGC
CGAAACTGCACCGCCTTTGGAATGTTTCCGACATAATTTATAGTGGATTAACAAAAACCA
GTACGGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAA
GTGAATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTG
TTAATCCACTATATGTTTTTCAATTATTTGCCGTTTTGGTGCGAACCGCTGCCTTTGCCC
GTTTCAGACGGCATTGTCCGAAATGGTTGCCCGCTTCCTGCTTTATTGACAAAAAAATGC
TTTCCCGATAATATCCTACGAAAATTAACCTGCCGATTTGACACAGCTTGCGGGCATAAC
AGCTAAAGCGTTCCGACAATTTCAGCTTTATCTTCCGCGCCCGTTGTGTCCGACATCGGG
CTTTGTTGTATGGGAAAGACAATGATTATTTTGGACAAGGTTTCCAAGCATTACCAAACG
CGCGACAAGACCCGTTTTGCCGCCGTCGAGCCGACCAGCCTCGAAATCCGCGACGGCGAA
ATCTTCGGGCTGATGGGTTATTCGGGTGCAGGCAAATCCACCCTGTTGCGCCTGATTAAC
CTGTTGGAACGCCCCGACAGCgCAAGGTCAACGTCTGCGACAAGAGCTGACCGCGCTCGA
TGCCGCCGCATTGCGTCAGGCTCGGCAGAATATCGGCATGGTGTTTCAGCAGTTTAATCT
TTTGAGCAACCGCACCGTTGCCGACAATGTTGCCTTTCCTTTGGAAATCGCCGGATGGCC
GTCTGAAAAAATCAAAGCGCGCGTTAAAGAATGCCTTGAAATCGTCGGCTTGACCGAACG
CGCCGGCCACTATCCCGCCCAGCTTTCCGGCGGGCAGAAACAACGTGTCGGCATCGCCCG
CGCACTCGCGCCCAAACCCCAAGTCATCCTCGCAGACGAACCCACTTCCGCCCTCGACCC
CGCCACCACGCGCAGCGTCTTGGAATGTTTGGAAGACATCAACAAACGCTTCAACGTAAC
CATCGTCATCGTAACCCACGAAATGAGCGTCATCCGCCGCCTGTGCGACCGCGCCGCCCT
CTTGGATAAAGGCAAAGTCGTCGAAATCGTCGAAGTACGCGGCAACCAAATCCACGCCCA
ATCCGACATCGGGCGCGAACTGATTCGGGAGGACTGATATGGCAGACTTAACATTCCAAC
AAGCCGTTTCCACCAwCGtCGGCATGAAAGACGAAATCTTCCGCGCCTTGGGCGAAACCT
TCGTGATGGTCGGCTTGTCCACCACATTCGCCGTCATCTTCGGCACGCTGCTGGGCGTGC
TGCTCTTCGTAACCTCCAGCCGCCAACTGCATTACAACAAGCTGGTGAACTTCCTGCTCG
ACAACCTCGTCAACCTCATGCGCGCCTTCCCCTTCGTCATCCTGATGATTGCGATGATAC
CCGCCACACGCGCCATCGTCGGCAGCACCATCGGTCCGGTTGCCGCCTCGCTGGTGTTGA
GCGTGTCGGGATTGTTTTATTTTGCCCGACTGGTGGAACAAAACCTGCGCGAAGTCCCCA
AAGGCGTAATTGAAGCCGCCGCCGCGATGGGTGCGCCGCCGATTGCCATCGTCTGCAAAG
TCCTCTTGAACGAAGCGCGCGCGGGCATGGTTTCCAGCATTACCGTGCTTGCCATCGGGC
TTTTGTCATACAGCGCGGCGGCAGGGATGATAGGCGGCGGCGGCTTGGGCGACCTCGCCA
TCCGCTACGGCTACTACCGCTACCAAACCGAAGTCATCATCTTCATCGTCGCCCTCCTCG
TGCTGCTGGTCATCCTGATTCAAAGCACCGGCAACGCGTTGGCGCGGAAACTCGACAAAC
GTTGAACCCGAATGCCGTCTGAACGCCAAAACCCCCACCGCTATCCGAAAAATGCTATAA
AATCCCCCTGTTCGCGGCAAATGCCGTCTGAACGCCGAATCCGGACGGCAGGACTCCCTG
CCCGTCATTTTTGTTTGAAACTGCCACAACATCAGGAGAAAATATGAAAACCTTCTTCAA
AACCCTTTCCGCCGCCGCACTCGCGCTCATCCTCGCCGCCTGCGGCGGTCAAAAAGACAG
CGCGCCCGCCGCATCCGCTTCTGCCGCCGCCGACAACGGCGCGGCGAAAAAAGAAATCGT
CTTCGGCACGACCGTCGGCGACTTCGGCGATATGGTCAAAGAACAAATCCAAGCCGAGCT

GGAGAAAAAAGGCTACACCGTCAAACTGGTCGAGTTTACCGACTATGTACGCCCGAATCT
GGCATTGGCTGAGGGCGAGTTGGACATCAACGTCTTCCAACACAAACCCTATCTTGACGA
CTTCAAAAAAGAACACAATCTGGACATCACCGAAGTCTTCCAAGTGCCGACCGCGCCTTT
GGGACTGTACCCGGGCAAGCTGAAATCGCTGGAAGAAGTCAAAGACGGCAGCACCGTATC
CGCGCCCAACGACCCGTCCAACTTCGCCCGCGTCTTGGTGATGCTCGACGAACTGGGTTG
GATCAAACTCAAAGACGGCATCAATCCGTTGACCGCATCCAAAGCGGACATCGCCGAGAA
CCTGAAAAACATCAAAATCGTCGAGCTTGAAGCCGCGCAACTGCCGCGTAGCCGCGCCGA
CGTGGATTTTGCCGTCGTCAACGGCAACTACGCCATAAGCAGCGGCATGAAGCTGACCGA
AGCCCTGTTCCAAGAACCGAGCTTTGCCTATGTCAACTGGTCTGCCGTCAAAACCGCCGA
CAAAGACAGCCAATGGCTTAAAGACGTAACCGAGGCCTATAACTCCGACGCGTTCAAAGC
CTACGCGCACAAACGCTTCGAGGGCTACAAATCCCCTGCCGCATGGAATGAAGGCGCAGC
CAAATAAGGCAGTCGTATAAAATGATGCCGTCTGAACTGTATCCGTGTTCAGACGGCATT
TTTGTCCTTTAATCCGCCATTCCCTGCCATTCCGCCGAATCCGGCGTATCGATTCCGAAC
AGCGACAAAGCGTGTGCAACACTGTGCGCCACTATGTCGTCCGCCGTCTGCGGTTTGCGG
TACATCGCAGGAACAGGGGGAAACACCACGCCGCCCATTTCCGTTACCCGCTTCATATTG
TCCAAATGGGCAAGGTTCAGCGGCGTTTCGCGCACCATCAGCACCAGCCGCCGCCTTTCC
TTCAAAACCACATCCGCCGCACGCGTCAGCAGATTGTCGCCGAAGCCGTGCGCGACAGAG
GCAAGCGTCCGCATCGAACAGGGGGCGACCAGCATCCCATCCGTTTTAAACGTACCGCTG
GCAATGCACGCCCCGATATTGCCGATCGGATGCACGAAGTCCGCCAAGGCATATACCTCG
TCTCTCGCATAAGCCGTTTCCGAAGCGCGCGCCATCTCCGCACCTTTCGATACCACAAGG
TGCGTTTCGACATCTTGCGCGCGCAAAAGTTCCAAAGCCTTCACGCCGTATTGGAAACCG
CTCGCCCCGCTGATGCCGATTATCAAACGCCGTACCATCATCCGCCTTTCCCATAAAACC
GCCTGCAACGGCAAACCGGCTATTATAGTGAAAAAACAGAAATCCGATAAACGCGGATAC
AAATTGTCGGCAACACCCAATATCCGATAAAATACCCGATTTAACATCCTATCTGAATAG
GCACGGGAGGGCGGTATGGCAAAAGTAAAAGGCGGATTGGGGCGCGGCTTGGATTCGCTG
CTCGCCAACGGCGCGGACAACAGCAGCGGCGACCGATTGACCACGGTTGCGGTTAAAGAT
ATCCGGCCCGGCCGCTATCAGGCGCGTGTTCAAATCGATGACGAAGCCTTGCAGGAACTG
GCAGATTCGATTAAGGCGCAAGGCGTGATACAGCCCGTCATCGTGCGCGAACACGGACTG
TCCCGATACGAACTGATTGCAGGCGAACGCCGTTGGCGCGCCGCACAGATTGCCGGCCTG
ACCGAAATCCCCGCCGTTATCAAAACCATCAGCGACGAAACCGCATTGGCAATGGGTTTG
ATCGAAAACCTCCAGCGCGAAAACCTCAACCCCATCGAAGAAGCACAAGGCTTGAAACGC
CTTGCCGACGAGTTCGGGCTGACCCACGAAACCATCGCCCAAGCCGTCGGTAAAAGCCGA
AGCGCGATTTCCAACAGCCTGCGCCTTTTAAGCCTGCCCGAACCCGTGCAGGAAATGCTT
TACCAACGCCGCCTCGAAATGGGGCACGCCCGCGCATTGCTGACCCTGCCCGTCGTCGAA
CAGCTCGAATTGGCGCAAAAGGCCGTCAAAAACGGCTGGTCGGTGCGCGAAGTCGAACGC
CGCAGCCAGGCCGCCCTTCAAAACAAACGTCCCGAGCCCAAAAAGACTGCCGCCGCCGAC
ATCGGCCGCCTGAATGATTTGCTGACTGAAAAACTGGGTGTCAACGCTGAAGTCAAAACC
GCCAACCACAAAAAAGGCAGGATTGTCCTGTATTTCGATACGCCTGAAACGTTCGGCCAC
CTGCTGGAGCAGTTGGGCATAGATTACCGGCCTTAATTTTGCGGGATATACCGTCTGAAA
TATAGAGAATAGCTTTCCAGATTTTAAGTGGGAAATATAATTCTATTGACATTTTTCTGC
TTCACGTAAGAATCGTTTTCCTGTTTTCATTTTTAATTTTCGAAGAAATTATGAACACAC
GCATCATCGTTTCGGCTGCGTTCGTTGCGTTGGCATTAGCAGTTGCGGCTCAATCAATAA
TGTAACCGTTTCCGACTAGAAACTTCAGGAACGTGCCGCGTTTGCCTTGGGCGTCAGCCC
AAATGCCGTAAAAATCAGCAACCGCAACAATGAAGGCATACGCATCAACTTTACCGCAAC
TGTGGGTAAGCGCGTGAGCCAATGCTATGTTACCAGTGTAATCAGCACAATCGGCGTTAC
CACTTCCGATGCAATTTGTTTGGGAGGCGGAACGCACAAAGGCAAAAGTCAATGCAATGC
TTTGCTTAAAGCGGCAGGCAGTTGCTAATCCTTTATTCGGAAAAGGTCGTCTGAAAATAT
TTTCAGACGACCTTTTTATTTATTGAGCAAATTCCCCAAACTGCCGACAATCCGACCGATA
AACTGCTACAATTTCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 282>:

GNMCL71F gnm_282

CCGAAGTTGGATCGCTCTAGAGGATCCCCTGCCGATGTAGCGCGCTCCTGGTACGGGCAT

AATGCCCTGGGCTTCTTCCTGACTGCCGGCTTCTTGGGTATGATGTACTATTTCGTACCC
AAACAAGCAGCCCGCCCCGTTTACTCCTACCGCCTGTCCGTCGTTCACTTCTGGGCGTTG
ATTTTTACCTATATGTGGGCGGGTCCGCACCATCTTCACTACACTGCGCTGCCTGACTGG
ACGCAATCTTTGGGTATGGTTCTGTCTTTGATTCTGTTCGCACCCTCTTGGGGCGGTATG
ATTAACGGCATCATGACCTTGTCCGGCGCGTGGGACAAACTGCGTACAGACCCGATTCCT
AAAATCCCGGATGGAACCCTGGTCCTTCTACGGAATGTCTACCTTTGAAGGCCCGATGAT
GTCGATTAAAACGGTCAATGCATTGAGCCACTATACGGACTGGACCGTCGCGCACGTTCA
TGCGGGTGCGTTGGGCTGGGTAGGCTTTGTAACCATCGGTTCCGTCTATTACATGATTCC
CGTCTGTTCGGCAAAGAACAGATGCACAGCACCAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 283>:

gnm_283

TTGAACAGGTTAcGAATTTGTTGTTGAATTTGTCCACGCGGCCGGTGGTATCAACGATTT
TTTGGGTGCCGGTATAGAACGGGTGGCACAGGGAGCAAACCTCGATATTGAAGTTTTCTT
TTTCCATCGCGGATTTGGTTGCGAATTTGTTGCCGCAAGAGCAGGTAACGTTGACTTCGT
GGTAGTTCGGGTGAATACCTTGTTTCATTTGATTTCCTTTCAAAAAAGCGGGCATAGGGG
ATGTACCTATGCTACAGACAAGTCCGACATTCTCGCTATTTTCTGTTGTTACGTCAAGAG
TATATTCGATAAAATGTATAGTGGATTAACAAAAACCAGTACAGCGTTGCCTCGCCTTGC
CGTACTATCTGTACTGTCTGCGGCTTCGTTGCCTTGTCCTAATTTTTGTTAATCCACTAT
AAAAAGTTCTTTTGAGGGAGGTTTGATGGGATCAAAATTCTTTTTCCTGCTGCTGCGTTT
TGCCGGTTCGGGGTTGCCGCCGTCACATATGCGCGGCATCGGCATCGTCGGCAGACGGGT
GCGCGGTTTTTTGGCGCGGCGGGTTTCTCCGCATATCGGACGCGGGGTCAATATCGAACG
CGGGGCGTATGTGTTTCCGGATACGGTTTTGGGCGACGGCTCGGGCATCGGGGCAAACTG
TGAAATCTGCCGTGGGCTGGTGGTCGGCAAAAATGTGATGATGGAGCCGGAATGTCTGTT
TTATTCAAATAACCACAAGTTTGACCGTTCAAAAAACGCTTTGAGGGCTACACGGAAATC
CGTCCGATTACGTTGGAGGACGATGTCTGGCCGGGGCACAGGGTGATTGTAATGGCGGGC
GTAACCGTCGGACGCGGTTCGGTCGTGGGCGCAgCGCGGTGGTTACAAAAGACATTCCGC
CCTACTCTTTGGCGGCAGGCAATCCGGCAGTGGTGAAAAAGAATCTGCCGGAAGGTTGAA
TGCCGTCTGAACGTGTCGGGGCGGATGATCTGAAAAAACAGGAACATCGTTTCTGTTTTT
TGCGCTTCAGACGGCATCGCTATTGCGCCACGCGCGtATCGATATCTTGGTAGAGTTTGC
CGAAATCGGGTTCGCCGACGTAGGTTTTGAGGATTTCGCCTTTTTTGCCGATAAGGACGG
AAGTCGGATAAACCTGTGTGCCGAACGCCTGTCCGACAGCTTTGTCCGCATCATACATGA
CGGTAAACGGCAAACCGTAGTCTTTGACATATTGGCGGACGCTTTCTATCGGATCGATGG
GCTGGGCGACGGCAAGTACTTGGAAGTTTTTGTTTTTATAGTCATTTGCCGTTTTAATGA
TTTTGGGCATwTCGCTCACACAACCCGGACAGGAGGGAAACCAAAAATTAATCAGGGTTA
CTTTGCCTTGCAGGTCGGCGTTGGAAACGGTTTTTCCGTGCAGGTCGGGCAGGGAGAAGG
CGGGCGCGGTTTTGCTGTCGGGGATGAGGACGATGGCAAGGAGGATGCCGATCAGTGCGA
CGACGGCGGCGGTGAGTATTTTTTTCATTCGGACAAGGCTTCCAATGCGCGGGCAAGGGT
GGCGGGCAGGCTGACGGTGCGTTGTGTGGCGGCGTGGACGGGCATCAGGGTGATGTCGGC
TTCTGCGGCGGTTTTGCCGTTTGGCAGTGTAATCGTCTGGGTCAGCACAATACGGCGCGT
GCCGGGGGTTTTCAGGCGGCATGAAAACTGCAATACGTCGCCTTCGACGGCGGGGCGGCT
GTATCGGATGTCGATGCGGGCGACAATCAGTATGAGGCCTGCCAACTCGTGCAGCAGTCC
GCGTTCTTCAAAAAACGCCCAGCGCGCTTCTTCGAAAAATTCGAGGTAGCGCGCATTGTT
GACATGGCCGTAGCCGTCGAGATGGTAGTTGCGGACGGTCAGCTTCATCAGTTCAGGTTG
ATGGGTTGGAAGGCTTCGCGGGCAAGCGGTTCGTGTTCGAGGTCGGTGATGACGGTAGAA
AGCTGGATGTCGAACCATTCGTTGAAAATGTCGGCATCGAGCGCAGGCCACTCGCGTTCG
TCTTCGCACCAGTCGGCAAGTTCGGCGGCGAAAATGTCTTCAAAACGGGCTTCGATTTCG
TCCCATACTTCGTCGGCGGTTTCGCACGGGCGGACAAGGTAGGAATTGGCGTCGGCTTGG
ATGTCTTCAAGAGTCAGTCCGTCGAGGTGGTTGCCCGGCAGGGTTTGCAGCCAGTTCCAA
AAAGGTTCTAAAGGGATGAGGACGAATACGCTGCGGTTGACTTCGTACATGGTTTTTCCT
TTGCTGTCGCGCGGTATGCGCAAAAAAGAGATTATAGCCCAATCTGTGGTTTCGGACTGT
CCGTTCCGACAGAAGGGAATGCCGTCCGAACACGGATTTTCAGACGGCATGGCTTTAAGG
TTGTGTTCCAGGTTGCGTTTCGGCTTCCCCTGCTGCTTCTGCCTGTGTTTCGGATACGGA

ATCTTCTTGAACGGCAGTTTCCGCCGCGCCGGTTTCGGCACTTTCGACCAATTCGTCGAT
GTCGATGTTATCTTCCGTACCTTCGGCAGGTGTTGCACCGGTCTGCCGCGCACGGACTTT
CATATAGAGGTCGCGCGTGTAGCTGTATTTGTCGATGGCGGCTTCGTCCAGACTGTCGGT
CAAATCGAGCAGGCCTTCGCGCGTACTGACGGCGGATACGGCAGTCGTGCCCCAGCGTCC
GACAGGGGTGCGGAAGACGATATTCTTGGGCGAATAAACGGAGGTAATACCCGTGCCGAG
CGCGTCGCGGACGGTGGACGGCCCTAAGACGGGCAACACGAAATAATTGCTGTTTTTCCA
TCCCCACGAGGCAAACGTGTCGCCCAAGGTGTTTTTATTGTCGGGAATGCCGCCCGCGCC
GGCGATGTCGATAAGCCCGCCCAAACCGAAAGTGGTGTTGATGCCGACGCGGACAAGGTC
TTCGCTTGCGCGTTTGATGTCCAAGCGCAAGATATTGCTGCCGAAGCTGACCACGTCGCA
CAGGTTGTTAAAAAAATTGGACACGCCGGCGCGGACGGGTTTCGGCGCAACTTTGCGGTA
GCCGCGCGCGGCAGGGGCGAAAATGTAGCGGTCGGCTTGGTCGTTGAATTTGAAAACGGC
GCGGTTGTAGCCTTCATAAGGGTCGGCGGGGCGGGTTTCGGCAAATGCAGGGGCGGAAGC
GAACCCGATCAGCAGGAGGAAGGCATAGGCGGTTTTTTTCATGATTTCAGCCAGTCTTTG
ATTTCGTACAGTTCGGACAGCGCGCGCACGGATTCGGGAATGCCGGTCAGCCTGACGCTG
CCTTTGCAACCGCGCAGCACTTCGAGCAGCAGCGACACGCAGGCGGAATCGGCGCGTCCG
ACGCCGCTCAAATCAACCGCGCAGGTGTCTTTCAGACGACATTGCTGTCTGAAGCGGGTA
AAAGCGGCGGCGGTCAGGGTTTTGACGGTGATGTCGCCGCCGATGTGCAATATTCCGTTT
TTGAGTTCTGTATGCATAGCGTTTGCTCGGAAAACCCATACCGCCCTCGGACGGTATGGT
TTGTCGGTTATTTGCCGCCGTTTTTGGCTTTCAACTCGGCAATCAGTCCGTCCACGCCTT
TCGCTTTGATAATTTCGCCGAATTGGTTGCGGTACACGGTAACCAGGCTCGCGCCTTCGA
TGGCGACGTTGTAGGTACGGTATTTACCGCCGCTTTGGTAGGTGGTGAAGTCCATGTTGA
CGGGTTTTTGCCCGGGTACGCCGACTTCGGCGCGGACGATGATTTCTTTGCCGCCTTTAT
TGACGATGGGATTGTCTTTGACGTTGACGTTGGCGTTTTTTAATTTCAGCATCGTGCCGG
AATAGGTGCGGATCAGCAGGGTTTGAAATTCTTTGGCCAACGCTTGTTTTTGCGCGTCGG
ACGCGGTGCGCCAAGGGTTGCCGACCGCCAATGCGGTCATACGTTGGAAATCGAAATAGG
GAATCGCATAGGCTTCGGCTTTTTGGCGAGCGGTGTTGGCATCGCCGTTTTTTAAGATGC
TCAATACTTGAGTGGCGTTTTGACGGATTTGGCTTACCGCGTCGGCAGGGGCGGCAAATG
CCATGCCGATGCTCAAAATACCGATGCCCAATGCGCTGATGAGGGAGGATTTTTTCATGA
TTAAGTGTCCTAGTTTGAATATGATGGCATACGTTTATTCGGCGGCTTTTTCCGCATTGC
CGCCGTCGGCATTTTTCTCGGCAAAACTCGTCATGAATTTGCCGATAAGGTTTTCCAGAA
CCATTGCAGAACTGGTTACGGAGATGGTGTCGCCGGCAGCAAGGTTTTCCGTGTCGCCGC
CCTGCTGCAGCCCGATGTACTGCTCGCCCAAAAGTCCCGAAGTCAGGATTTGCGCGGAAA
CGTCGCTGCTGAACTGATACTTGCCGTCCAAATCGAGGCGCACCCTCGCCTGATAGGATT
TCGGGTCAAGTCCGATAGCGCCGACGCGCCCGACCAATACGCCTGCGGATTTGACGGGGG
CATTGACCTTCAAACCGCCGATGTCGCCGAAATCGGCATAAACGGCGTAAGTTTTGTCCG
AACCGCCGAACGCCGCACCGCCGGCCACGCGGAAAGCGAGAAAGGCAACCGCCGCCGCGC
CAATCAGGACGAACAGTCCGACCCAAAATTCCAATATGTTCTTTTTCATTAAAGTTCCTT
GAATATCCGATGTTCCGCGTTTCGTCTTCAGACGGCCTGTCAATCTGTAAACATCCACGC
GGTCAATATAAAATCGACCGCCAAAATCGTCAGGGCGGACGAAACCACCGTGCGCGTGCT
GGCGCGCAAAATGCCTTCCGAAGTCGGGACGCAATGGAAGCCCTGATGCACGGCAATCAG
CGTTACCGCCACGCCGAACGCGGCGGATTTGATCAGACCGTTGATTACATCGTAATGTAT
CGTGATGTTGTTCTGCATTTGCGACCAGAAAATACCGCTGTCCAAGCCCAGCCAGGTTAC
ACCAACCAAATACGCACCGAAAATGCCCGCCACGTTGAAAATCGAAGCCAAAAGCGGCAT
GGAAAACACGCCCGCCCAAAAGCGCGGCGCAACCACGCGGGCGACAGGGTTTACCGCCAT
CACATTCATCGCTTCGAGCTGTTCGGTCGTTTTCATCAGACCGATTTCGCTGGTCATCGC
ACCGCCCGCGCTGCTGGCAAACAAAATCGCTGCCAATACCGGACCCAGCTCGCGCAATAG
CGAAGCCGCGACCATATAGCCCAAAATATCGGCGGATTTGAATTTCGACAACTGCGTATA
GCCCTGTAAACCCAAGACCATGCCGACAAACAGCCCCGAAACGGCAACAATCAACACCGA
CAGCACACCGGCGAAATACACTTGGCGCACGCTCAGGCGCGGACGGACGAAAGCCGTACC
GGACTTCGCCAGAATGTTCAGCAGAAACAGCGTGATACTGCCGAGGGATTGAATAAGGCC
GAGGGTTTTCGCCCCGACGGAACGGATAAAGTTCATAAATTTCTATGTGTAAAGTTCAAC
GGTTTCAGACGGCATCAACTCATTTATCCCAACAGGTCCTGCTGCAACGACGTTTGCGCC
GGATAACGGTATGCTACGGGGCCGTCTGCCAGCCCGCCGACAAACTGGCGCACCCAAGGC
GAATCCAGTTCGCGCATTTCCTGCGGCGAGCCGGAGAACATAATTTCGCCGTGCGCCAAG
AAAATCACCTGATCGACGATTTCCAAAGATTTTTCAATGTCGTGCGTTACCATAATACTG
GTCGAACGCAAAGCCTTGTTGACGCGGCTGATCAAGTGGGCAATCACGCCCAAGGAAATC
GGATCGAGGCCGGTAAACGGCTCGTCGTACAACATAATTTCAGGGTCGAGCGCAATCGTG

CGGGCAAGCGCGACGCGGCGCGACATCCCGCCGGACAACTCGGACGGCATCAGGTTTTCC
ACACCGCGCAGACCGACCGCGTTCAATTTCAACAAAACCAAATCCCGAATCACCGCTTCC
GGCAGGCGCGTCAGTTCGCGCATCGGAAAAGCGATATTGTCGAATACCGACAAATCAGTA
AACAGCGCGCCGTGTTGGAACAATACGCCCATACGGCGGCGGTGTTCATACAACTCGTCA
GCCGAAAAGCCCGCCAAATCCCGTCCTTCAATCAAAACCTGCCCGGACTGCGGACGAATC
TGTCCTGTAATCAGTCGCATCAGCGTGGTTTTGCCGCTGCCCGAACCGCCCATTACGGCA
GCAAAATTGCCTTGCGGAATGCTGAAATTGATGTTCTTCAGAATCGGGCGGTCGCCATAC
GCGAAGGCGACGTCTTTCATTTCGATAAAGGGGGATGGGCTCATGTACGGACGGACGGTA
GGTTTGACGGCGTGTATTTTAAGGCTTATCGGGAAGACGGGCAATTTTCAGACGGCATAC
GGACGGTAAATGTTGTGAAAATGCCGTTGTCGGCGGCGGATTGTTTGCTGTGGCGAAAAA
TGTTATCTTTCAAATGATAACCTTTATCAGAAAACTATGGAAAAAGCAGAACATTTGAAC
AGCAGCCGGTTCGTCAATCTAGTCAAAAGCGGCGGCGGCAGCTATGTGGAGGGCAGCTAC
CGTTTCGATACTTTGTCCAACGGCATTTCCATCCACGGCGGCACAGTAACGGCACGGTGT
GATTTTTGCAGCAGCCGCCTCGCCGAACCTTATGTGTCGTTCGTGCTCTTGCTGGAAGGC
AGTTTGGACTTCGGCATCAaCCGCTGCCGCTTCCAAATCGATGCGGACGGCGGCAAGATT
GTCCTAATTGCTGTCGGGGAAGAAGTCCTGTTCAGCCGCTATCTTTACCGAGGCGGCAAA
ACGGTCAAAATGACCATTAAAGGTATGGAACAATGGCTGCTGCGTCCGGAATACGCGCGT
TTCGCACCCCTGCTTTACCGCGAACCGGTCAGGATATGGGATTTGCCCCCGAACCTGCGC
GGCTTGGCGGCATCCTGCCTGAAAGCCGTCCCAAAGGGGCATTTGGGCGAAACATTGCGC
CGCGAGGCGGACGTGTTGCGGCTGCTGTCGGACTTGTGGGACACGGTTTCAGACGGCATC
GGGCCGGCGGCGGGGCAAACGGCGGAAGCAGACGCTATGCCGTCTGAAGACTTCAGCCGC
ACCCTAAATGCCGCGTTTGCCGACGGCGCACACCAAGTCAACCGGCTGACAGACGCGCTG
AACATCAGTGAAAGGACGCTGCAACGCCGTATGCGCGACCATTTCGGCATTACGGCAAGC
GAATGGCTGCACCACAAACAAATGCAGCACGCGCTCTATCTGTTGCAAAACGGGGGAAAA
AGCATAGGCGAAACCGCATATTTATGCGGCTACCGCCACGTTTCCAGCTTTACTCAGGCA
TTCAGGCAATATTTCGGCAGCACGCCTGCGGAAACCAAAAAAGAAAACCGGTAAGCCGCA
TTTGATTTCAAACCCGAAATCCGCGTGTATAGTGGATTAACAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 284>:

gnm_284

CTCGCACGTATGGTTACCTCAGGCGAGGCGGACTTGGCGATTGTTACGGAACGGATAGAC
GACCATCCCGAACTGGGAAAACTTCCCTGCTATGACTGGACTCATGCGGTTATCGTACCG
AACGACCACCCCTTGCTCGAATGCAGAAACCCCCTCCGTATTGAAGATTTGGCGAGGTTT
CCGCTGATTACTTATGAATTTGCATTCAATGCGGGCAGCAGCATCGCGCGGGCATTTTCC
AAAGCCCGTTTGGAACAACCCGATGTCGCATTGGCTGCGGCAGATACGGACGTATTGAAG
ACTTATGTGCGCTTGGGTTTGGGCGTGGGACTGATGGCGAAAATGGCGTACAACCCGGAT
ACGGACGGCGATTTGCAGCTTGTGGATGCGGCACACCTGTTCGAGCCGTCGCCGACGTGG
ATTGCTTTGCGCAGCGATACTTATTTGCGCGGATATGCCTACGACTTTATCCAAGCGTTC
GCGCCGCACCTGACACGCGAGAAGGTGGATAGGATTCTGTACACGCCCATCAGCGAGGAT
TTTTCGATTTAGGCGGCTGCCGGTTTTCAGACGGCACTTTGCGGCAGATACAACAAACAG
GACAGATGTTTTCGTCTGCCCTGTGTTTATTGAGAATGCTGTCTGAAATGTTCGTACGGG
TTAATCAAATGGCGTGCGAGCAGCCGGACACCATTTTTTTCAACACCTGCAGATTGAGGA
TTTTGATGTGCTTATGCTCGACGGAAATCAATCCTTCCTGATGAAATTTAGATAATGTGC
GGCTGACGGTTTCAAGTTTCAGCCCGAGATAACTGCCGATTTCTTCGCGGGACATTCTTA
AGATGAAGTCGTTGGCAGCAAAACCTCGGGAATAAAGGCGTTGGGAAAGGTTCAGCAGGA
AGGCGGCAATCCGCTCTTCGGCGCGCATATTGCCCAACAGCAGCATAACACCTTGGTCGC
GCACGATTTCACGGCTCATCATGCGGAAGAAGTGCGTACGCAGGCTGGGGATGTTTTGCC
CCAGTTCTTCGATGTGGGTAAACGGCAGTTCGCACACTTCGCTGTCTTCCAAGGCGACCG
CGTCGCAACTGTGCACATGGGAACAGATGCCGTCCATGCCGATGAGTTCGCCCGACATAA
AGAAACCCGTTACCTGATCGCGGCCGTCCTGACTGGCGACGGTTGTTTTGAAGAAGCCCG
AACGGATGGCAAAGAGCGAGGTAAAGGCTTCGCCGACACAGAACAGGTATTCGCCCTTTT
TCAGGCGGCGGCTTTGACGGATGACGGCATCGAGTTGGCTGAGCTCGTTGGGCAGCAGCC
CGACAGGCAGGCAGAGTTCCCGCAAAGAACAGGAAGAACACAGCGTTTTCATCTGATGTG

TAGTATTATGCGAAGCCATACCGTACCTTTTTGTGCGCTTTGCCCCATCATGATTATAGT
GGATTAAATTTAAACCAGTACGGCGTTGCCTCGCCTTGTCCTTATTTAAATTTAATCCAC
TATATGTGCTTATTGACACATATCAAGACAGGTTTATCATACTGTGGCATTCTACCAAAC
TATCCAAAATTTGACTAACATCATAAAACCGCACACACACACCATGAAAATCATTCAGAT
ACAGAACAATCACAATGTAAACGATGACCGCCCCGAGTTTGACCGCGCGCTGATTGCCAG
CCTGCCCGCCAGCGGCCCGCGCTACACTTCCTACCCTACCGCCGACCGTTTCCATGACGG
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CAACAAAATCATCACCAAAGACAAAAGCCGCGCCGATGCCTACATCGAATATCTTGAAAA
AGAAATGGAACTGCTCGCTCCACATCTGAACGGACGGCACCAGCTTGCCCAACTGCACTT
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ACGCAAACATTTCGAGTTAATCCCCACCGGCGAATACTCCATCGAAATCGACCCGCGCAA
AGTCAGCCGCGACACCGTCCTCATGCTCGGCAGACTCGGCTTCAACCGCATGAGCATCGG
CATTCAGGATTTCGACCCCAAAGTGCAGGCGGCGGTCAACCGCATCCAAAGTTACGAAGA
AACCAAAGAAGTCATCGATGCGGCGCGCGAAGCGGGGTTCAAATCCGTCAGCGTCGATTT
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CTTCCTCATCCGCAACATCGCCATGGTCTTCGATTACCACCTGCGCCATAAAGAAACCAA
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CATAACGTTCCGCACCTTTGTGTCCGACCGTTCCGAAACCAAGATATAGTGGATTAACAA
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TCTAAGACGTTTTTCTTGACGCGCGAAAACAGAAAATAGGACACCGCGCCGCCCAACACG
GGCGACAATACCCAAGAAACACCAATACCGCCCAGCTTGCCCCAACGTATCAAATCGCCC
GATGCGGCATCGTTCATTACCGCCATACATACCGCGCTGCCGACAATGCCGCCGATAATG
GAATGGGTGGTAGATACCGGAAGCCCTTTTTTCGAGGCAAACAACAGCCACAACGCCGCC
GCCAAAAGCGCGGACATCATAATAAACACAAACTGTATGGGTTCGAAATCAACACCCTTC
AAATCGACGATGCCTTTGCGTATGGTATTGGTTACCTCGCCGCCCGCGATGACCGCGCCG
CTGACCTCAAATACCGCCGCAATCAGCAAAGCCTGCGGGATGGTCAGCGTACCCGCACCG
ACGCTGGTGCCGAAAGAATTGGCAACATCGTTGCCGCCGATGTTGAACGCCATAAACACG

CCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 285>:

gnm_285

CGTGGAATCGGCTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTT
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CGATTTCCTGAAGCGTAACCGGACGGTTGCCGTCCGAACCCGATTCCGCACCTTCTGCAT
ACGGTGCAAACGTGCTCTGCAATTTCAACAGTTTCACCACATCCAAACGGGTGTAGCGTT
CGCCGCCGTAACCGACAACCACACCGTGATCATGCTGCCATTGCGCAAAACCATAGGGGC
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GTACCACAATCCGCCGATGCGTTCGTTTTGGACAAACTGGCCGTCTGAACCTTTGCTGAA
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GGAATTTGGTAGGCACGATTGGATTCGAACCAACGACCCCCACCATGTCAAGGTGGTGCT
CTAACCAACTGAGCTACGTGCCTTCAAAGAATTTTTGCATTTTATCGGGTCGTTTTAATT
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 286>:

gnm_286

GCACTTCAGACGGCATTTTATGCCTTGCCCTCCATGCCGTGATGTTCGATGGCAAAACCG
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TCATTTCGTCCATGTTCAGGCCGGGCTTGAGGGAGATGCCGCCGGTGTCGAAGGTAATGC
CTTTGCCGACCAATACCACAGGCGCGGCTTCTTTGTCGGCTGCACCGAAATAGCTCAGTT
CGACCAAATAGGGGGCTTCCGCGCTGCCTTTGGCGACCGACCAAAACGAACCCATGTTTT
CTTTGATGTAGTCTTTTTCGATGATTTTGGCGTGCGCGCCCAGTTTTTCGGCTTCGGCTT
TGGCGGTGCGCGCTAAAAATTCGGGCGTGCATTCGTTGGGCGCGGCGTTGCCCAAGTCGC
GGCAGAGGCTTTGTCCGTAAACTTGCGCTTCGGCGACGCGCAAGGCTTCTTTGACGGCGG

CTTCGTGCGCGGTATGGAACACGGCAGTTTCAAATTTGGCGGGCTTGGCTTCTTTTTTGT
AGCGGTCGAAACGGTAGGCGGCATTGCCGAACGCAATCGCAAACGCTTCGGCAACGGCTG
CAGCCTGCGCTTCTTCAAAGACGTGAACGTCCACATTGACCGTTTCCTGATTTTGCGCCC
ATTTGGCGGCTTCGGCGGCGGCCTTGTTCAATGCGGCGCGGCCGGTGCTTTTCAGACAGC
ATACGGCAACAGCCTGCAAACCGTTGCCTGTCGGGATTTTTGTGTCGGCAAAATTTTGAC
CTTCTTCAAGCGAAGACAAAAGGGCAAGGACGGTCGGGTTGCTCAGTTGCGATGCTTCGG
TGCAGACAAATAACTGTGCGCCTGCCTGCTGTTCCTGCAAGATTTCGGTTTTTGTGCTAA
ATTCCACGTTTATTCTCCTGATTGAGACGGTTGTCGGTAGTTTTCGGACGGCCTTTCGCT
CAAAAGACCGTCTGAAGACGGCTGGCACGATTGTACCCCATTTGAAGCACCGTCTGAAAC
CTTGCGCGGACAATCCGCCTGCGCCGAACCGCTTACCGCCCCCCTGACCGCGATTCTATG
ATTTATCAAAGAAACCTCATCAAAGAACTCTCTTTTACCGCCGTCGGCATTTTCGTCGTC
CTCTTGGCGGTATTGGTCTCCACGCAGGCAATCAACCTGCTCGGCCGTGCCGCCGACGGG
CGTGTCGCCATCGATGCCGTGTTGGCATTGGTCGGCTTCTGGGTCATCGGTATGACGCCG
CTTTTGCTGGTGTTGACCGCATTTATCAGTACGTTGACCGTGTTGACCCGCTACTGGCGC
GACAGCGAAATGTCGGTCTGGCTATCCTGCGGATTGGCATTGAAACAATGGATACGCCCG
GTGATGCAGTTTGCCGTGCCGTTTGCCGTTTTGGTTGCCGTCATGCAGCTTTGGGTGATA
CCGTGGGCAGAGCTACGCAGCCGCGAATACGCTGAAATCCTGAAGCAGAAGCAGGAATTG
TCTTTGGTGGAGGCAGGCGAGTTCAACAGTTTGGGCAAGCGCAACGGCAGGGTTTATTTT
GTCGAAACCTTCGATACCGAATCCGGCATCATGAAAAACCTGTTCCTGCGCGAACAGGAC
AAAAACGGCGGCGACAACATCATCTTCGCCAAAGAAGGTAACTTCTCGCTGAACGACAAC
AAACGCACGCTCGAATTGCGCCACGGCTACCGTTACAGCGGCACGCCCGGACGCGCCGAC
TACAATCAGGTTTCCTTCCAAAAACTCAACCTGATTATCAGCACCACGCCCAAACTCATC
GACCCCGTTTCCCACCGCCGTACCATTCCGACCGCCCAACTGATTGGCAGCAGCAACCCG
CAACATCAGGCGGAATTGATGTGGCGCATCTCGCTGACCGTCAGCGTCCTCCTACTCTGC
CTGCTTGCCGTGCCGCTTTCCTATTTCAACCCGCGCAGCGGACATACCTACAATATCTTG
ATTGCCATCGGTTTGTTTTTAATTTACCAAAACGGGCTGACCCTGCTTTTTGAAGCCGTG
GAAGACGGCAAAATCCATTTTTGGCTCGGACTGCTGCCTATGCACATTATCATGTTTGCC
GTTGCACTCATCCTGTTGCGCGTCCGCAGTATGCCCAGCCAGCCCTTCTGGCAGGCGGTT
GGCAAAAGTCTGACATTGAAAGGCGGAAAATGAACCTGATTTCACGTTACATCATCCGTC
AAATGGCGGTTATGGCGGTTTACGCGCTCCTTGCCTTCCTCGCTTTGTACAGCTTTTTTG
AAATCCTGTACGAAACCGGCAACCTCGGCAAAGGCAGTTACGGCATATGGGAAATGCTGG
GCTACACCGCCCTCAAAATGCCCGCCCGCGCCTACGAACTGATTCCCCTCGCCGTCCTTA
TCGGCGGACTGGTCTCCCTCAGCCAGCTTGCCGCCGGCAGCGAACTGACCGTCATCAAAG
CCAGCGGCATGAGCACCAAAAAGCTGCTGTTGATTCTGTCGCAGTTCGGTTTTATTTTTG
CTATTGCCACCGTCGCGCTCGGCGAATGGGTTGCGCCCACACTGAGCCAAAAAGCCGAAA
ACATCAAAGCCGCCGCCATCAACGGCAAAATCAGCACCGGCAATACCGGCCTTTGGCTGA
AAGAAAAAAACAGCATTATCAATGTGCGCGAAATGTTGCCCGACCATACGCTTTTGGGCA
TCAAAATTTGGGCGCGCAACGATAAAAACGAATTGGCAGAGGCAGTGGAAGCCGATTCCG
CCGTTTTGAACAGCGACGGCAGTTGGCAGTTGAAAAACATCCGCCGCAGCACGCTTGGCG
AAGACAAAGTCGAGGTCTCTATTGCGGCTGAAGAAAACTGGCCGATTTCCGTCAAACGCA
ACCTGATGGACGTATTGCTCGTCAAACCCGACCAAATGTCCGTCGGCGAACTGACCACCT
ACATCCGCCACCTCCAAAACAACAGCCAAAACACCCGAATCTACGCCATCGCATGGTGGC
GCAAATTGGTTTACCCCGCCGCAGCCTGGGTGATGGCGCTCGTCGCCTTTGCCTTTACCC
CGCAAACCACCCGCCACGGCAATATGGGCTTAAAACTCTTCGGCGGCATCTGTCTCGGAT
TGCTGTTCCACCTTGCCGGACGGCTCTTCGGGTTTACCAGCCAACTCTACGGCATCCCGC
CCTTCCTCGCCGGCGCACTACCTACCATAGCCTTCGCCTTGCTCGCCGTTTGGCTGATAC
GCAAACAGGAAAAACGTTGAACCAATGCCGTCTGAACCTCTCTTCAGACGGCATTTGTTT
TCATTGACACATTCCCACAGACAGATAGCCGTTCCCTATTACATTACCTGTCATAACAGT
TCCATTTTTGTTAAAACTAGTCTATGATAGCGGTACAAATATTGTTTACAATATTTAACG
CAAATCATTTGCAACCCGACAAAAGAAAAACAGAAAAAGGAACAAAGAGATGTTAGAAGC
CTATCGTAAAGCCGCCGCCGAGCGCGCCGCCCTCGGCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 287>:

gnm_287

CGGCAGTGGACAAGTGACTGTTCAGTCCTATTTCCAGAACGATGGCTCAGGTGCTTACCG
TATCGATGAGATTCATTTCGATAACGGCAAAGTACTGGATGTTGCCACTGTCAAAGAACT
GGTACAGCAATCCACCGACGGTTCGGACAGATTGTATGCCTACCAATCCGGAAATACCTT
AAATGGCGGATTGGGCGATGACTATCTGTACGGTGCCGACGGGGATGACCTGCTGAATGG
TGATGCAGGCAACGACAGTATCTACAGTGGCAATGGCAATGATACGCTCGATGGAGGAGA
AGGCAACGACGCCCTGTACGGCTATAATGGTAACGATGCACTGAATGGTGGCGAAGGCAA
TGATCATTTGAACGGCGAAGACGGTAACGACACTCTAATCGGCGGTGCAGGCAATGATTA
CTTGGAGGGCGGCAGCGGTTCGGATACTTATGTCTTCGGCAAAGGCTTCGGTCAGGATGC
GGTCTATAATTACGACTACGCTACCGGACGCAAAGACATCATCCGCTTTACCGACGGTAT
TACAGCCGATATGCTGACTTTTACCCGAGAGGGCAACCATCTTCTTATCAAGGCAAAAGA
CGGCAGTGGACAAGTGACTGTTCAGTCCTATTTCCAGAACGATGGCTCAGGTGCTTACCG
TATCGATGAGATTCATTTCGATAACGGCAAAGTACTGGATGTTGCCACTGTCAAAGAACT
GGTACAGCAATCCACCGACGGTTCGGACAGATTGTATGCCTACCAATCCGGAAATACCTT
AAATGGCGGATTGGGCGATGACTATCTGTACGGTGCCGACGGGGATGACCTGCTGAATGG
TGATGCAGGCAACGACAGTATCTACAGTGGCAATGGCAATGATACGCTCGATGGAGGAGA
AGGCAACGACGCCCTGTACGGCTATAATGGTAACGATGCACTGAATGGTGGCGAAGGCAA
TGATCATTTGAACGGCGAAGACGGTAACGACACTCTGATCGGCGGTGCAGGCAATGATTA
CTTGGAGGGCGGCAGCGGTTCGGATACTTATGTCTTCGGCGAAGGCTTCGGTCAGGATAC
GGTCTATAATTACCATGTGGATAAAAACTCTGACACTATGCACTTTAAAGGATTTAAAGC
AGCAGATGTTCATTTTATCCGTTCCGGAAGTGATTTGGTGCTTAGCGCTTCTGAACAAGA
CAACGTACGTATTTCCGGATTTTTCTATGGTGAAAACCATCGTGTAGATACATTTGTCTT
TGATGATGCAGCTATCAGTAATCCAGATTTTGCCAAGTATATTAATGCTGGCAATAATTT
GGTACAGTCTATGTCTGTGTTCGGTTCTAATACTGCTGCGACAGGAGGAAATGTGGATGC
CAATATACAATCCGTACAGCAGCCGTTATTGGTAACGCCATCTGCATAAGGAGCCTAATT
ACATTCATGGCTTAAACTGAAAAACAGCAATCAAGTTTATTTTGATTGCTGTTTTTCTTA
ATATTGGGATAAGGGTCGTATTTTAATTAACCTTAATCGGTGCACTTCTAGCAATATAGT
GGATTCACAAAAACCAGTACAGCGTTGCCTCGCCTTACCGTACTATCTGTACTGTCTGCG
GCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATAATTTTCAGACGGCCTTTTGCC
TTTTCAAATTCAAACCAATCAAACGGTTTTATTGCTTCATCGCGTTGGTCAAGGCTTTGA
TGTTGTGGCGGTACATTCCGATGTAGGTGTCTGCGGGCGCGTTGCCGAGTGCGTCGGAAT
ACAGTTTGCCGCTGACGTTGACACCGGTTTCTTTGGCGATACGGTCAACCATACGGGTGT
CCTTGATGTTTTCGGTAAAGACGGCTTTGATGCCTTCGCGTTTGATTTGTCGGATGATGG
CGGCGACTTGTTTGGCCGAAGGCTCGGCTTCGCTGCTCACGCCTTGCGGGGCGATGAATT
CGATATGGTAACGTTTGCCCATATAGGAAAAGGCATCGTGCCCGGTCAGGACTTTGCGTT
TGGCAGCAGGGACGGCATTAAATGCGGCTTGTGCGTCGCTGTGCAGTTTTTTGAGCTGCA
TTTGGTAGTTGCCCAAGCGTTGTTGATAATAAACTTTGCCTTCGGGATCGGCCTTTATCA
GGGCTTTGGCAACGTTTTGGGCATAGGCGGACATAAGGACGGGGTCGTTCCAGACGTGCG
GGTCATATTCGCCGTGGTCATGGTGGTGTCCTTCGTGGTCATGATCGTGGTCGTGATGGT
GTCCGCCTTCTTCTTCGGCTTTGAGGGGTTGGATGCCTTTGGTCGCTTCGGTATAGGATA
CTTTGCTTTGTTTGACGGCGCGTTGCACATCGGCAGCTTCAAGTCCTAAGCCGTTGAGCA
GGACGAGTTTTGCACTGCGGATTTTTTTAATGTCGCCACTGGTCATATGATAGGCGTGCG
TATCTTGGTTGGCTCCGACCAAACTTTGTATGGATACGCGCTCTCCGCCGATTTGTTTGG
CTACGTCGCCTAAAATGCTGAAGCTGGTTACAACCGGCAGGGGGGCGGCAGTTGCGGAGG
CGGTCAGCAATGCGGCAATAAGGGTGAGTTTGAGGTGTTTCATAACTGTTCTCCTGTGAT
ATAACGTAACATCTGTTATGGTAAAACAAGCCGCCTGTTTGTTCAAGCGGCTTGCGGGGT
CAGGTGGTGTGGCGGTGGTGGCTTTTGAGCCATTTGGCCAGAATGCCGCCTTCTTTGCCG
AGTATGACGGCAAAGACATATCGGACGCTGCACCAGCGGATGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 288>:

GNMCS11F gnm_288

CCGGCACCACGCCTTACGACACCGCCCACCTCGAAGTGATGTTCGACCAATGTTTCAGCC

AGATTGACTATTTGCGCCGCAAAGGGACGGGCGCCGGCTCCGGTTCGTCGGTCAAAGTCG
CCCACCTGCTCGAACGGCTCCGGCAGACCGTAGACCGTCTGAAGCTGCTCACCGACATCC
AAACCGGCGCCGGCAACAGCAACCGCCTGACCATCGCGCTGATGAACTCCCTCATCTACG
CGGCGGTCGAACAATACAGCACCCGCCACCTGCGCCGCGCAGCATCCGTATGCTCGCCCG
CAGCATTACCGAAAACAAAAGCCACCACGGCGAACACTACATCACCCGCAACCGCAAAGA
ATATTTCAAAATGTTCTACTCGGCGGCAGGCGGCGGCATCATCATCGCCCTAATGGCGCT
GCTCAAAATCCGCATCGGCTCACTCGGCCTCAGCCCCTTCCTCACTTCCTTGTCGGCTGG
GTTCAACTACGGCATCGGCTTTATGATCATCCATATGCTGCACTGCACCGTCGCCACCAA
GCAGCCCGCGATGACTGCCGCCAGCAGGCAATCGGAGTAAAAAATGAACCTTGATTTAAC
CGCGCAAAAAGTCCGTCTTTCTTGGAAGGATATTCTGTGGGGGTATGGGAATAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 289>:

GNMCS48F gnm_289

TGCTGGCAGCAAAGAAATCTGCACGATTGTCAATGGTGTTGAAATACTTGTCAAATCTTG
TAGATGCCCCTTGTGAGTTATATAAATAGCCAAAAACTTCTTTGGCAACCCGTGATACAT
CCGAAGGGATATACTTCCACGCAGCAGGCATGGCAATATATTTAATAGATATATTAATGC
CGTTTCTGCAACCATCGCGCAATGGGTTCCTAGAATAGACTTGTTGAAGTTCCGTATCAA
TTACTTTGCGAAATTGTTCATCCGTTTTGATGGCATTTACTTTTTCCATCGTAGTAGTGC
AAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 290>:

gnm_290

GTCGACTCTAGAGGATCCCCTGGGATTGAGTTTAGACCAGACTGCTCATTATACTTTATG
CAGGTTTGTAAATATTTGGCAAACTTCATAAATTATGCCTTGTAATCAAGTCATCAAATA
AGCATGTAAATAACTACTATAGAAATTAAATTACAAAAATATTATGTATTCTTTTGTGTA
CAAAGGGTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGAGTGAAATTGT
TATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGT
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCG
GGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTG
CGTATTGGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 291>:

GNMCS78F gnm_291

CCCGCGCAGGCGGCAATCTATCGGAAATGACTGAAACCTCGAGATTCTAGATTCCCACTT
TCGTGGGAATGACGGTTCAGTTGCGTTCCAACAACACCGCAATCTCGAAATCCGTCATTC
CCGCGCAGGCGGAAATCCAGACCTCCGACGCGGCGGGAATCTATCGGAAATGACTGAAAC
CTCGAGATTCTAGATTCCCACTTTCGTGGGAATGACGGTTCAGTTGCGTTCCAACAACAC
CGCAATCTCGAAATCCGTCATTCCCACACAGGCGGGAATCTAGACTCCTGACGCGGCGGG
AATCTATCGGAAATGACTGAAACCCCGAGATTCTAGATTCCCACTTTCGTGGGAATGACG
GTTCAGTTGCGTTCCGACAACACCGTAATCTCGAAATCCGTCATTTGCGTACAGGCGGGA
ATCCAGACCTCTGACGCGGCGGGACTCTATTGGAAATGACTGAAACCGCGAGATTCTAGA
TTCCCGGTTTTGTGGGAATGGCGGCTCACTTGCATTCCGACAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 292>:

GNMCV37R gnm_292

TCGGCATTTTTTTATCCGTTTTGGGGGTAACTTGTTTGGAAAGCTGCAACTTCATAAATA
CAGGATTACATTTAAGTTTTGGGTAACCTTTTTAAAAAAATGCGTGATGACTTTTGCATT
TTTAAGGCGTTTTTTGGGGTAATTCGTGAAAAGTTACCCCAAAAGTTACCCCATAAATGG
CGAAAACTCAAGCATACGCCAGCATCCTGCAACACAAAAAAGCCTTGAAACTGTTGAAGT
TCAAGGCTTTTTTGTGTTGCAGGATCTGCTGTCAATAGGGTATGGTGGAGGCGGGGGGTA
TCGAAACCCCGTCCGATATTCCTCTACAAAGCGTTCTACATACTTAGTTGTGTCTATATG
AGAATCTTATTTCCATCATGCCGACCAACAGGCTTTATGGATACCAGTTACCTTAAGTCT
T

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 293>:

GNMCV44F gnm_293

GACGGCCAGTTCGCGAAAACGACGGCCAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCT
AGAGGATCCCGGCGATGGCTTGTGCGAGTTGGGGCAGGATGGGGGCGTTGCGGTCGGGGT
TTTGGCTTAAAAATTGGGTGATGAATTCGGGCACTGGCACGCAGATGCGGCGGATTTGCT
TGGGCAGTGCTTTGATTTGCAACTGGATTTTTTCGCGTATCATGCCGGGCACCAGCCATT
CGTGCGACGGCGCGTGCAGGCGGTTGAGGACGGTCAGCGGCACGGTCATGGTCACGCCGT
CTAGCGGATGGTGCGGCTCGAAGCGGTAGGAAAGTTTGAATTTGCCGTCTGCGGTTTGCC
AGAATTTGGGGAACTGTTCTTCGGTAATGTGTGCGGCGGCGTGTTGCATCAGATCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 294>:

gnm_294

GCCCCACCAACCTGTGAGTCTCCTTGCCTGCTGGTGTGTGTGGCCGCCCACTCACCCATG
CATCATGACCCGTGGGATCTCAGTAGCCAGCGTGCACTGATTCTGCGCACTTATCAGTGC
CTTCGTACACTTTGCCCACTTCCACTTCGGCAGTAATCTGCTCGATGCGTTTTTTCGCCG
CATCGCCGGCTTCTTGAGTGGTTGCGGCAATGGTAATCGTACCGTCTTCGGCAATATTGA
TTTCCGTACCGGTTTCAGCGGTAATCGAACGGATGGTTTCACCGCCCTTACCGATAACTT
CGCGGATTTTGTCTTGGTTGATTTTCATCGTGAACAAGCGTGGCGCGTGTGCGGACAGCT
CTTGCGGGCCCGCAACGGCGGCTTTCATCTGATCCAAGATGTGCAGACGCGCTTCTTTGG
CCTGTGCCAAAGCGATTTGCATAATTTCTTTGGTAATGCCTTGGATTTTGATGTCCATTT
GCAGCGCGGTAACGCCTTCGGTCGTACCGGCCACTTTAAAGTCCATATCGCCCAAGTGGT
CTTCGTCGCCCAAAATGTCGGTCAGGACGGCAAATTTGTTGCCTTCCAGAATCAGACCCA
TCGCGATACCGGCAACGTGTGCTTTCAAAGGCACGCCGGCAGACAGCAGGCTCAGGCAGC
CGCCGCAGACGGAAGCCATAGAGGAAGAGCCGTTGGATTCGGTAATTTCGGAGACCACGC
GCATGGTGTAGCTGAAATCTTCAGGTTTCGGCAATACGGCCAACAATGCACGTTTAGCCA
AACGGCCGTGACCGATTTCACGGCGTTTCGGTGCGCCCATGCGGCCCACTTCGCCGGTAG
AGTACGGCGGAAAGTTGTAGTGCAGCATAAAGCGGTCGGTGTATTCGCCGGACAGCGCGT
CGATGATTTGCTCGTCGCGCGAAGTACCCAAAGTTGCAACGGCCAAAGCTTGGGTTTCGC
CACGGGTAAACAATGCAGAACCGTGCGTGCGCGGCAATACGCTGGTTTGGATGTTCAGCG
GACGGACGGTGCGGGTGTCGCGGCCGTCGATGCGCGGTTGGCCATCCAAAATTTGGCTGC
GGACGACATCGGCTTCCAAGTGTTTGAAAATGCCTTTGATTTCGTTGGCTGCCAAAGTGT
CGGTTTCTTCGGTAATCAAGGCTTCTTTTACCGCACTCCAAGCTTCGTCCAATTTGGCAG
AACGCGCTTGTTTTTGACGGATTTTGAACGCTTCTTTAATGGTTTCGCCGGCAATCCCGC
GGACTTTGGCAACCAGTTCCTCATTGGTTTCAGGTGCTTTCCAATCCCAAAGTTCCGGAT
TGACTTCGTCGGCAAATTCATTGATTGCATTGATGGCAACCTGCATTTGATCGTGGCCGT
AAACCACCGCGCCCAGCATCACGTCTTCGGGCAGGATTTTGGCTTCGGATTCCACCATCA
ACACGGCTTTTGAAGTACCGGCGACCACCAAGTCCAATTGCGATTTCGCCAATTCGGCTT
TAGTCGGATTCAAAACGTACACGCCGTTTACATAACCGACGCGTGCCGCGCCGATCGGGC
CGGCAAACGGTACGCCGCTCAACACCAGCGCGGCAGATGCACCCAACATTGCAGGAATAT

CAGAATCGATTTCAGGATCGACGGACACGACCATCGCTACGATTTGGATGTCGTGGTAGA
AACCTTCAGGGAACAGCGGACGAATCGGACGGTCGATCAGACGGCTGGTCAGGATTTCTT
TTTCGCTTTGTTTGCCTTCGCGTTTGAAGAAACCGCCGGGAATTTTGCCTGCGGCGTAAG
TGCGTTCCAAATAATCGACGGTCAGGGGGAAGAAGTCTTGACCTTCTTTCACTTCTTTGT
TGGTGGTAACGGCAACCAAAACAACGGTGTCGCCCATAGAGACTTTAACGGCAGCGGCGG
CTTGGCGGGCAATTTCGCCGGTTTCCAAAGTAACGGTCTGATTACCGTATTGGAAGGTCT
TAACGTGTTTGTCGAACATCATTGTTCCTTTCAAAATACCGCACTGCTAAAACACTAATA
ATGCACACTAAAATCCGAATGTGCATAGTTAGGGTTTCAGACCGTGCGGCAGGTTATAAA
CAAGCTTTCAGACGGCATTTCGGACGCTGAAAGCAATTGCGGATTATAAAGGCAACCATC
CTTAAAATCCAGTATTGATACAATAAAAAGGCCGTCTGAACCATATTTCTTTCAGACGGC
CTTCAAACTTAAAAATCAATCCTGAGTCAGCAAAGTCAATGCTTCCCGATACTTCTCGAC
AGTTTTCTGAATCACATCGGCAGGCACTTTCGGCGCAGGGGCTTTTTTGTTCCAACCGCT
TTGTTCCAGCCAGTCGCGGACGAATTGTTTGTCAAAAGACGGCGGATTGGTGCCGACTTT
GTATTGGTCGGCAGGCCAAAAACGGCTCGAATCGGGAGTCAATACCTCATCCATCAGCGT
CAGCGTACCGTTTTCATCCAAACCGAATTCAAATTTGGTATCGCAAATAATAATACCGCG
CGATTTGGCATATTCCGCCGCTTCGGTGTAAAGCCGAACCGCCTTGGCGCGCACTTCTTC
CGCCAATTCTTTGCCGATAATGCGTCCGCATTCTTCAAAGCTGATGTTTTCATCGTGATC
GCCGACTGCGGCTTTGGTTGAGGGCGTAAAAATCACTTCAGGCAGTTGTTGCGCTTCCTG
CATACCTTCAGGCAGTTGAATACCGCAAACCGAGCCGGTTTTTTGATAATCTTTCCAACC
GCTGCCTGCCAGATAACCACGCACAATCGCCTCTACTTTCACCGGAGTGAGCTTTTTAGC
CACGACGGCGCGTTTCTCTAAAGCTTTGGCTTCGTTTTCAGGCAAAACATCGTAAACCGT
TTGACCGGTAAAGTGGTTGGGCATAATATGCGCCAGTTTTTTAAACCAAAAATTGGAAAT
CTGCGTCAGAATCTCCCCTTTGCTCGGAATCGGGTCGTCCAAAATCACATCAAACGCGGA
CAGGCGGTCGGAAGCGACCATCAGCATACGTTTATCGTCGATTTCATATAAATCGCGCAC
TTTTCCAAAATAGATCTTTACCAAACCAATCTCACTCATTTCGCCCCCCCCTGAAAATAT
CTTGAAAATACCGACCCGACACCCGACAGGTTTGAATCACAAACCGATATTCTAGCCGAA
GTCGGCGCAAAACAATACCCATGGCACAAAAAGCCAACCCGTCAACCGTCGGCAAAATTT
TGGCACTATAATACCGACAGCAAGTCCTACAATACACTTTTACCAAAGGAAATACCTCAT
GAGAATCCTATTGACAGGCTCGAAAAGCCAACTGGCACGCTGCCTGCGCGACCGTCTTCC
GGAAGACTGGGAAACCATTGCGACGGATTCCGCATCCCTAGACATTACCGATGCCGATGC
CGTCTGCAACATGGTCAAAAGTTTCCAACCCGACGCCATTGTCAACACGGCTGCCTATAC
TGCCGTCGACAAGGCGGAAGGCGATGCGGCAGCGGCATTTGCCGTCAATGCTTCCGCCGT
TTACAACCTTGCCTTGGCAGCACATCGCGCCCATGCCCGATTCATCCACATCTCAACCGA
CTATGTCTTTGACGGTAAAGGGAAAAGACCCTATCAGGAAAGCGACTTTACCAATCCTTC
CAATGTATACGGACAATCCAAAACCGCAGGCGAGCTGCTCGCACTGTCTGCCAATCCCGA
CAGCCTTATCCTGCGGACTTCTTGGCTGTTTAGCGAATACGGGGACAACTTTATCCGCAC
GATGCTGAACCTTGCGCGGGAACGTTCCCCGCTGTCCGCCGTCCACAACCAAATCGGCTG
CCCGACCTATGCCGGCGACTTGTCCGCCACCATCATCCGCCTGTTGCAGCACTCCAATCC
CGTTCGCGGCATTTACCACTACGCCGGCAGCAAATCCGTATCCTGGTACGAATTTGCCCA
ACATATTTTCCAAGCGGCATCGCAACAGCAGACATCCTTCCCCGTTCCCGAATTGACTGC
CGTTTCAGACAAGGAATATCCGACCGCCGCCCCCAGGCCCGCATACAGCATTTTGGACTG
CCGCAAAATCGAAAACGACTTCGGCATCAAAcCGTCAGACTGGCAAAAAGCCCtTGCACA
GGTCGTTTCCAAGCTGCTCTGATGCCGCCCGCCCCTCTGTTTCCGCCGTCAAGCACCGCC
TTGGCGGTTTTCTTATATAGTGGATTAACAAAAACCAGTACGGCGTTGCCTCGCCTTGCC
GTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATA
AAATCTACCGATTACACAAACACATATCATCTTTACACAATCATGCTTCCATCAACAGTA
AAACATGATATGATTGCCAACAATAACATCTCACAATAAATTTTCTAATTTTTATTGAAA
AAATCAATAAATAAGAATCCTCCCAACCGACAAATAAAATAAAGAAAGGGTTAATATGCA
ACATCGAAGAAGACTAGCAATTTACCAAGCATCCAAACGTGCTTCCTTTACCGGCAGGTC
ATCCGCCCCGCAAAAACGTAAAGAACGTTGATTTGAAAAAAATGCCGCCTGAAGTCCTGC
TTCAGACGGCATTTTTTTACCGTTCGAGAAACTGTTTCAACCTGTCCTCATCCAAAAACC
AGTGACAGATTTCCTCATCTCCCGCCAACAAAACGGGAACCAGCTCATTGTATTTTTCTT
CCAAAACAGGATTTTCATCCACATCGACCACTTCCAGCCCGAACCCGTATTCATCCTGAA
AAGGTTTGAGTTCGTCGCGCATTTTGTGGCACAAGCTGCAATATTCACGAAACATCAAGG
TCAATTTCATCCGCGTTTCCTTATCTGTCAATTTGCACACGCCAAAGCCTTAGACGCAGC
AGAATCATGGTCTATTTGGGAAAAAACAATGTTTTCGAGGAAGATGATACTCAAGTCCTG
CCAAAAACAGTAAAAATGCCGTCTGAACAGTTCAGACGGCATTTCGAAAACCGTTTTACG

CTTGAACGTTGATACCCGCCGTAACCGTCGGTTGCGCATTGTGCGCCGTCAGAAACGAAG
CGGCAAGCTCCCCGCAGCAGCCCCAGCAGCTCGCTACGCCCAATTGCGACTGCAAATCGC
CCATTGTGGTCGCGCCGGCGGCGATGGTTTCCTTGATTTGATGGTCGGTAACGGCATTGC
AGATGCAGACAAACATTTTGTGCTCCGTGTGTTCTCAAACTATCGTACCGATAGCGGCTT
TTATTATCGTATGCGAATATAAATAAAAACGGTTCGCATTGCAAGGTCGGTATACACGGT
TTGTCTTGGTAATTTTTTATCAAGTTTGCATTTTCGATTGATTTCTTATTAAACCAAAGT
AGAAGCCTCAGTTTCGGGAATGGTGTTCCTTCACTACACCCTGCAACCATACGTTGGCAA
CATGGGTATAAATCTGCGTCGTATTCAAATCGGCATGTCCCAACATATCCTGAACCACGC
GCAAATCCAAGCCGTGCCGCACCAGATGCGTGGCAAAGGCGTGGCGCAGGCTGTGCGGGC
TGATGTGCCCGATGCCTGCCTGACTTGCATATTCTTTGACAATCATCCATGCCAACTGAC
GGGAAATGCCCGTCTTTTTCTGACTGACAAACAATGCGTCGCAATTCCTGCCTTTCAGCA
GAAGTGGGCGTGCCTCCGTATAATAGCGTTCCACCCAATACGCCGACTCCTGCCCCATCG
GGACCATCCTCTGCTTATCACCCTTTCCCAGCGCGGTAATACAGCCCCTGTCCAAATCCA
CATTGCCGAAGTTCAGCCCGACCGCCTCGCTGACGCGCAAGCCGGTCGCGTACATCAATT
CGAGCAAAGCCTTGTCCCGCAAACCGTGCGGCGTGTCGGTATCCGGGGCGGCAAGCAGTC
GGGAAATCTGCTGCTCGGTGATCAGGGTCGGAATATTCTTGTCGATTTTGGGCGGTTTCA
GCAAACGGGTGGGATTGTCCGTCCTTATGCCTTCACGCTCCATCCATATATACAGGCGTT
TGCATGCCGATAATGCGCGCGCCTGCGAACTCCGTTGCTCTCCGTCAACATAAACCGCCG
CCGCCAAATCCGCTTCGTCCGCATCCTTCAGCATTCTGCCCGATTGGGACAGGCGGCGGG
CGATTTTTTCCAAATCGCGCCGGTAACCGTTTAAAGTATTCTGACTGAGCCGCCTGTCCA
ACCACAGCGTTTCAAGCAGCCTGTCGATCAAACCTTCTTCCATACCGTTCCAAACAAATG
CCGTCTGAATCTTCTTCAGACGGCATGGTTCACATTATCGGGAAAGCGTTTCCAATACTT
CCTGCGCGTGACCCGCCACTTTGACTTTCCGCCATTCATGGGCGATTTCTCCATCCTTAT
TCAAGACGAACGTACTGCGCTCGATACCTAACGACTCTTTCCCGTACAGTTTCTTCAATT
TGATGACATCAAACAGGCGGCACACTGTTTCATCCTTGTCGCTCAACAGCTCGAACCGGA
AACCCTGCTTGGCGCAAAAATTCTGATGCGCCTTTACGCCGTCGCGGGAAATACCGACCA
CGGTATAACCCAATGCCTCAAACTGTTCCAAACGCGCATTGAAATCCAAGCCTTCCGTCG
TACAGCCCAGCGTACTGTCTTTCGGATAAAAATACACGACCAAAGGCAGATGTTCTGCCG
AATGAAAATCCGCACCGCTGCTCGAAGGCAGGGTAAATTCATATTTCACATCCATAGTCC
TACTCCCGATATTCCCATTATTCAAAACGGCACGCAGACGCACCGCCGCAATTGCCAAAC
CAACCCCGATTCTACCGCCCCAAAGGACAAGGATTCAACCGCCGGAAACATCCAAACCGA
CACACGACGGCATGAAAAATATCCATGTCAAACCACAAAATATGTTCCGATTTAAAAACA
GAATGTTATAAAACCCAATCCCCAAAACACAACAAGACCGCCCGCCTACGGGCAGTCTCC
TGTCAGACGACATACTTTACAGATGGCTGTTTTTTCAACAAAATAACGCCAATACTCAAA
AATATGGAATCAAAAATGTCCATCCATACTCTGAAACGCCTGCCCTCATCGCTGCTGCTC
GGTCTCTGCCTTTCCCTGCCGTCAGCCCACCTTTTTGCCGACAACGACATTTTAGGGCAA
TTTTTAGAACAGAACATGCTTACCTCCTCCGATCCGATAGAAATATTCGCCGAAAGCACG
ATACACCCCACCAACACCCAAGCCATTACAGGCGGTCTGATTCTCTCCTCACAGTCTGCC
CTGGTCGTCAACAACAAAACCGGACAGATACTGTATCAGAAAAACGCCGACAGGATTATG
CCCATCGCCTCCATTTCCAAACTGATGAGCGCGATGGTCGTTTTGGATGCAAACTTGGAC
ATGAACGAAACCGTTACCATTACGCCCGACGAAATCGACCGCATCAAAGGGACCGGCAGC
CGTCTTGCCATAGGTACGGCACTTACACGCAAAAAACTGCTGCACCTGAGCCTGATGAGC
AGCGAAAACCGCGCCACCCATGCATTGGGCAGAACCTACCCCGGCGGCATGGGCGCATTT
GTCGCCGCCATGAACCGCAAAGCCCAAAGCCTCGGTATGTACGGCAGCCGCTTTTACGAA
CCGACCGGACTCAACTTCCAAAACGTTTCTACCGCCAAAGACCTGAGCCTTATGGTCAAC
GCCGCCGCCCAATATCCGCAAATCCGCACCAACTCGACTTCCAACTACGCCTCGGTACAG
ACCAAAAACGGGCAGCAGAACTACAAAAACTCCAATGCCCTGGTCAGAGAAGGCATGTGG
AACATCGAATTGCAGAAAACCGGCTACATACGCGAAGCAGGCAGGTCTATGGTTGTCAAA
GCCAACATTCAAAACCAACCCGTTACCATCGTATTGCTGAACTCGCCCACATCCGCCACA
CGCGTCAACGACGCCCGCAAAATCGAATCGTGGATGCTGCAGCAACGCTCCTGACATACA
AATGCCCGGCGGAAAACCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 295>:

GNMCW06F gnm_295

CGTTTCTTCCAGTGCAGCTATTGATTTAGTTATTAATCGTTCACTTCCGGATATGGCGGA
TGGTTATTGGGCATTAGGTTTGGGGATAGAAGCCGAACGTATCCACAATGAGCAAGCAGT
AAATAATCCGAACGGTAGCGAAAGGGATAATAGAAAGCAGTTAATATCTGCTTTAGATAA
AGGATTTGATGGATCTTTTAAAGAGAAGCATTTTACTTTTTTACAATCTGTGATGATGGA
TGTAACAAAGTTAGGTGTTGAATATACAATAGATGGTTGGCAAAAAATTGGAGGTTGGGG
TAATGGGATAATCAATGATTTATATAAAAGTGTTGTAAAAAGAGAGTGGACTGGAATATT
TGAGATCGTTAATAATAACATCAAGCAAGGAAATGAAGCTTTAAAAATGAAATCAATAGC
TGGTTCTGGATATGAAAGCTGCTGGGCAAGGAATTTGGAGATGACTTAAATACACCGTGG
AATAATCTCACTCAGGCTGCCGAAATAATCTATAATGACATAGTAGACCATACTAGTCAG
GAATAGAAAAAGGTGTCAAAGCCATTAAAGAATTGTCnGAAAAAATGAAAAATGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 296>:

GNMCW14F gnm_296

CCGATCCGACCACGCCCCCGCCGATTCCTTCAAACGGTTTCCCGCGTTCTTCCCAATTAT
CGTACATTAGGTTCTGCTACGGTTTTCCGCCCAATGTGGCAACTTGGCGCCCTGTCCGAA
TGTTGCTGCGCGCTTTGCTGAACTTCCTGCCCTTGGCTTTCTTCTTTGTATGGGTTAAAC
GGCAAGCCGTTTTTTACATAGTCCTTGGCACATCAACTCCGTCACTTCTTTCAATGCCGT
CCCTTGATGCGAATAGCAGGGCGCATCCGGTTCTTCCGCCTTCTATACAGCCTGCTATAT
ATTCAAAGGTTCTTACCTGCCTTACACCGTTATAAATCGGCTTGCTTCGGGTTTTTCGGA
CAATGTCGGAACAAACATATCTGCGGTAAGGTTGCCGTTATTTACCGGGCTCGCCTTCTG
TTTTATCCGGAAGTACTGCCTGCTGTTCTGTTGCCGCCGATTCTTGTGCTGGCGGGTTCT
TCCGTTTTTTTCCGTAACGGCTCAACATTTTATAGGACAGGCCGACAAACACGGGAATCA
GCAATAACTATTACGGCAGAGTGTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 297>:

GNMCX02F gnm_297

GGCCAGTGCCAACAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCTAGAGGATCCCCGGC
GACCATTTGGGTTTTGAATAAAGGCGGTGCGATTTTGGTGGAGATGGACAGCGCAATCGG
GGAAATCATCAGTTCGCCTATCGTGATGGCGAGGACGATCAGTGCGAAAAACGGAAATAG
GAATCGGGGAACCGGAGGAAATAAAGGGGACGAATCCCAAAAACGACGCGCCGGTAACAA
ATACCGCCATAGCGAATTTCAGCGGGGTTTTGGGCTGTTTGCGCCCCATTTTTGTCCACA
TTGCCGCCATCAGTCCGGAAAACAGGATGACCCACAGGCTTTGCATAGAATCTTTCCAAG
CGACGGGCACGGTAAACGAACCGATGGTGCGGTTGACGGTTTCGTCGAAATAGACGGTTG
CCACGGTGTAAATCTGAAACCAGACGGCCCAAAACATACAGATGGTCAGGAAAAGCGGGA
TGTAGGCGATGATGTGCCGTTTGTTGTCGGAACTGACGCGGGGGTTGGTCAGCAGGCGGG
CGAAATAGGCGATGACGGCAAGGATGACGGTAGATAATAGGATGCCGGAGAAATTGTCGA
GGTTGACAAGCCCGGTTTTGATGGCGGTTGCAAGTGCGGCGATGAGGGCGATGCCGACGG
CGGCCGCAGTTTTGCCCTGTCCTTTTGAAAGCGGATGGGGGACGGTGGGGTGGGGCAAGT
TTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 298>:

gnm_298

CCTTCCTCGGCTTCCTCAAAGGCGTAGATTTCATGTGGACGGTCAAACATATCCGACACC
AGCAACCCCGTCCGTCCGAACGCAAGCGCAAAGGCATCATGCACCGCCAACGCAAACGGC

AGCGTCAAAAACACCAGTCCCGCAAACAGAGCCGCATAAGGATATTTCTCGTTCACAAAC
ATCGCCGTCCCCCTCTTCCGAAGCAGACCGCATTATATAGCGGATTAACAAAAATCAGGA
CAAGGCGACGAAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTGAG
CACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTTGTTA
ATCCACTATACCGCGCACTGCCTTGCCGCCCGCCCGAAAAGTTGCACAAACAACCGTTCA
TATATATCATGACGAAAAAACGCCGGTGTAGCTCAGTCGGTAGAGCAGCGCATTCGTAAC
GCGAAGGTCGGGGGTTCGATTCCCTTCTCCGGCACCAATACCAAGCACAGACCCTCCCTT
CCTCGGGAAGCCTGTGCTTTTTCACATTTCCGCTTCAGACGGCACAACCGATATGAACAC
CTCGCAACGCAACCGCCTCGTCAGCCGCTGGCTCAACTCCTACGAACGCTACCGCTACCG
CCGCCTCATCCACGCcGTCCGGCTCGGCGGGGCCGTCCTGTTCGCCACCGCCTCCGCCCG
GCTGCTCCACCTCCAACACGGCGAGTGGATAGGGATGACCGTCTTCCTGCGACTTGGCAT
GCTCCAATTGCAAGGGGCGATTTACTCCAAGGCGGCGGAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 299>:

gnm_299

ACTTGCATGCCTGCAGGTCGACTCTAGAGGATCCCGTTACAAAAGATCATTAAAAAAATC
TTTCAGGAAAATGAAAAAGAGATCCTGAAAAACATTGATAGAATTGAACGGATTCAAAAG
TTAATTATTGGTCAAGTTATGCATAAGACCAATAATCGAGCAAACCCCCAACAAGTTTTT
ATAATTGTTGAAAATATGCTTCATGAAGTTCGGGAAAGAGATAGCTAAAAAAAATCAAAT
TATTTATCGCTATATAATCCTTAAAATTCAAAGCTTTGAATGACCTGCTAACACCCGTAT
CTTCTCAGAACGCCAACTAGAAATCCGTTTCAACTCCTCGGGTACCGAGCTCGAATTCGT
AATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA
TACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT
TAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATT
AATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCT
CGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAA
AGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAA
AAGGCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 300>:

GNMCY27F gnm_300

CCAGTTTCGATCTTGATTCTGTCGATACCGAAGCCCCGCGTCCCGGCCAAAATATCAAGA
TGTTTTTTCCGAAAAACCGCAAGCCCGGGTACGAGCTCGAATTCGTAATCATGGTCATAG
CTGTTTCCTGAGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGC
ATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGC
TCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAA
CGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 301>:

gnm_301

GGATGCGGATGCGCTGAACATATTATCAACCGATGCCGAAACCCGAAATCTGGCGCGCGG
GTGTAAAAACCTGATTTTAACGCCACACCCCGCCGAAGCCGCGCGCCTGCTTGGAACGAC
GGTTGCGCAGGTTCAGGCGGATCGGACGGCGGCAGTGAGGAAGATAGGGGCAATTTTCGG
CGCAACCGTGGTTTTAAAGGGGCACAAAACATTGGTTGCCTCACCCGATACGGAAATCTA
TGTCAACGAAAGCGGCAACGCGGGATTGGCAACGGCGGGCAGTGGCGACGTATTGGGCGG
CATCATCGGCAGTCTGCTCGCACAGGGCGTGCCGGTTTTTGAAGCCGCCTGCGCGGGCGC

GTGGCTGCACGGCGCGGCGGCGGATGTCATAAAAGAATCGGCAGGCATTGCGGCAGGGCT
GTTGGCAGGGGAAATCGCTCCGGCGGCAAGGTGGCTGCGCAACCGGATAACTAAAAGTAT
GTAAGAAGATATAGTGGATTAACAAAAACCAGTACATCGTTGCCTCGCCTTAGCTCAAAG
AGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGT
CTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATACCATACAACCACGCCG
GAATTAAGTTTAAATTTGAATAAAAGGTTCGGGTTCTGCAAAATACAGAACCCGAACCTT
GTTCGGATATTGAAACCGGCTGCCCGATTTTGGGCGGTGCGGCTTGCAAGTATCAAGATT
CGCATATGCCGTCTGAAGCTCGGAGAGGTTCAGACGGCATATGCTTATTTGGGCTGCTCT
TCAACGAATCTCGGACCTTTCAAGATGCCGTTGTGAGAATArGGCGACAGCAGGTTGTAT
GCsGCGGTTTTGGAAACCTGATAACCGCGGTCGGTCAGGCTGTTGGCAATCTGATTGACC
ACTGCGCTGACCAAAGCCCCCAACAGGCCGCTGTTGCTGTTGTTGCTGCCTTCGCGGATG
CTGGCCGAACCCGACCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 302>:

GNMCZ04F gnm_302

GACGGCCAGCAACATATACGACGGCCAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCTA
GAGGATCCCCGCGGCGAATAAGGGCAAATGTCAGGACGGCGCGATCGGTGCGGCTGTGGG
TGAGATTGTCGGGGAGGCTTTGGTTAAAAATACCGATTTTAGCGATATGACCCCGGAACA
ATTAGATCTGGAAGTTAAGAAAATTACCGCCTATGCCAAACTTGCGGCAGGTACAGTTGC
AGGCGTAACGGGAGGAGATGTCAATACTGCTGCACAAACCGCACAAAACGCGGTAGAAAA
TAATGCGGTTAAAGCTGTTGTAACTGCTGCAAAAGTGGTTTATAAGGTAGCCAGAAAAGG
ATTAAAAAACGGGAAAATCAACGTTAGAGATTTAAAACAGACGTTGAAAGACGAAGGTTA
TAATTTAGCCGACAACCTGACCACCTTATTCGACGAAACATTGGATTGGAACGATGCCAA
AGCCGTTATTGATATTGTCGTCGGAACAGAGCTGAATCGCGCTAATAAAGGGGAAGCGGC
ACAAAGGTCAGGAAGTTTTAGAAAAAATCGTCCTATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 303>:

GNMCZ23F gnm_303

CCGCATTGAAAGCGGAGACTTATTTTTGTCGCCCTTACCATTCTTGGGAGAAAGGGCTGA
ATGAGAACACCAACGGACTCATCCGGCAATACTTCCCCAAACAAACCGATTTCCGTAACA
TCAGTGATCGGGAGATACGCAGGGTTCAAGATGAGTTGAACCACCGACCAAGAAAAACAC
TTGGCTACGAAACGCCAAGTGTTTTATTCTTGAATCTGTTCCAACCACTAATACACTAGT
GTTGCACTTGAAATCCGAATCCAAGGCCGTCTGAAACGATAAGGTTTCAGACGGCATTTC
TTTCTTTATAGTGGAGAACTTTGGCATTTTTTTTTGGCTCGCTTAGCTTGATGATACGAT
TCTCTAAGGTGCTGTAGCACAAGTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 304>:

GNMCZ29TR gnm_304

TCTGCGGCTCGACGCCTTGTCCTGATTTAAATTTAATTCACTATATTTCATATGCTTATT
TATCTAACTTTTCCCCGGTAACAAGGTAACAACTAAGGGTATCGCTTCCTAGTATAGGTT
TTTTCCAAAAACCCAAAAAAAACCGCCCTGCATCTTGGACGGTTTCCCCCTTGTTCCCTA
CGTCTTGGCAGTATTCCCCGCAAGCTCTTTTCCGCTTGGCATTCCTGATTTGGCGGTCGT
TCAGCTTTATTTTTGCGGTATTTTTTCGAGGTATTTTTCAGATACCGCAAAAGATATCGT
AAATTTTAGGTTACTTCAATTAGGGCGGATTGGACGGGATTGCACTGTCAGGAAGGGGGA
CGGCACGATAACAATCAGCCTGAAATCCTTGTATTGATTGCAATTGGTTGACAGCGTTGG
ATGGGATTGAACAAAAAACGCCTGAAATTTTCAGGCGTTTTTGTCTGTTGGTGCCGACAG

CGAGATTTGAACTCGCACAGCCTACGGCCACTACCCCCTCAAGATAACGTGTCTACCAAA
TTCACCATGTCCGCATTTGAAAAACTGTTATTTCTGCTGCTGACGAACAAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 305>:

GNMCZ50F gnm_305

CGGCCAGTGCCAAGCTTGCATGCCAGTGCGAAGCTTGCATGCCTGCAGGTCGACTCTAGA
GGATCCCCCAGACGCAGGTACAGATTAGGCGGTGTGCCGTAATCGTACGAATGCCGATTC
AACCTAAGCAGACATCAGTATTTAGGAAGTGGATGTTTGATGGAGCAAAGGTTGTACGAA
GGGTGGAAGGCAACCTGTGGGTGTTTGGTATGGTCGCGCTTGAAAAAACGTGTTTTAAGG
GACAAATGCCGTCTGAAAATCGGTTTCAGACGGCATTTTCTGTTTATTTAAAGCAAACAG
GAAAAGGCAGCAATATTCTGCAGTCTTCCTATTCACACAAGCGTTTTATAGTTAATTAAA
AACAAGATAGTACAATACTCAACTTTGAAGGTCTAACCATGGCATACTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 306>:

GNMCZ56F gnm_306

GACGGCCAGCTAGGAAACGACGGCCAGTGCCAAGCTTGCATGCCTGCAGGTCGACTCTAG
AGGATCCCCGTTCCGTATTGGTTGCAACACCTTTGCCGGCACAGTCGGGAAATGCTGTTG
GATTCACGGCAGCACAAATGAAGTTCGGGGACAGTAAGAATTTCTCAAAATTAGAGAATC
TCAAATACCCGTGCGAAGTTATGGTAACGGTTGAAATGACTTCGACAGGTAAGGGCATGG
TTCCTTCATTAATTGATTTTCAGGTGGCAGAAAAGCCGAAAGGTTGATTTATGAAATTTG
AAGAACGTTTCATAGTTCAAGACTTGGAAACGCATGACTTTATTTATCCCGATCCTTTCG
GTGATGTGGGGTTTACTCAAAATATTAAATCAGCAGGTCAATTTGAAAGCTACGAAGATG
CGTTGAATTCAGGCATAAATGAAATAGGCGGAGGATTCCAGATATTTCAGTTCTTCGTAA
AATCGGAATAAAAGAAAAACAGGCTCGGCGGGCGGTCTGTCAACCTTTCACAAAGCCCGC
AACAAAGGAAAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 307>:

GNMDA71TF gnm_307

CCCCTCCGACCGGGAAGCCTGTGATTTTTATTTCCCAGGCGTATATATGCGGGATGAAAT
GGTAGTTGGGGCGGAGGGCGGCGTTTTGTATGTCGGCGACATCGCCCAGTACAGCCGCAA
CATCCAAGCCGGTATTGCCTTTATTGTCGGAAAGGCGGAACACCGCCGCGTCAGGGTGGT
CGCATCGGGCAGCAGGGCGGCAGGTTCAGACGGCATTGCCTGCGAGGAAAAGCTGGCGGA
ACTGCTGTCGGAATCGGTCGTCCGTATTCCGCCGCTGCGTATGCAGCATGAAGACATTCC
CTTCCTGATACAGGGGATTGCCTGCAATGTGGCGGAAAGCCAAAAGATTGCGCCTGCCTC
ATTCAGTGAAGAGGCACTTGCCGCATTGACCCGTTACGACTGGCCGGGAAATTTCGACCA
ACTGCAAAGCGTCGTTGCAACGCTGTTGTTGGAGGCGGACGGACAGGAAATCGGCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 308>:

GNMDB47TR gnm_308

CTGGTCGGGGGAAGTCCACTTTGTTAAACATTTCAACAGGTAGCCTAAAACCTGAAACTG
GTACAGTTAGTATTAATGGGCATGATATATATCAAGTTTCTCCATCCTTTATTAGGGGAT
TGAGCGGGATTGTTCGCCAAGATGATGTCCTTTATGCAGGAACTATTGGCGACAATAAGC
CATAACGCGTGATTTACCAACCTGTTACCATTGAGCCGCGCGAGATCACGCCGCGTATCG

TCCGTGAGGAGAACTACGGTGGCCAATAAATTAAGAAACTACACCATCAACTTCGGCCCG
CAACACCCTGCGGCGCACGGCGTATTGCGTATGATTTTGGAGCTGGACGGCGAACAAATC
GTCCGTGCCGACCCGCATATCGGCCTCTTGCACCGAGGTACCGAAAAACTGGGGGAAACC
AAAACCTATCTGCAAGCCCTGCCCTATATGGACCGCTTGGACTATGTTTCCATGATGGTC
AATGAGCAAGCGTATTGTTTGGCAGTAGAAAAACTTGTCGGTATCGATGTGCCCATCCGC
GCCCAATACATCCGCGTGATGTTTGCCGAAGTAACGCGCATCCTCAATCACTTGATGGGC
ATCGGTTCGCATGCCTTCGACATCGGCGCGATGACCGCCATTCTTTACGCCTTCCGCGAC
CGCGAAGAGCTGATGGACCTTGTACGAAACCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 309>:

GNMDB48TR gnm_309

CTGGTCGGGGGAAGTCCACTTTGTTAAACATTTCAACAGGTAGCCTAAAACCTGAAACTG
GTACAGTTAGTATTAATGGGCATGATATATATCAAGTTTCTCCATCCTTTATTAGGGGAT
TGAGCGGGATTGTTCGCCAAGATGATGTCCTTTTTGCAGGTTCTATTGGGGAAAATATTT
CATTTTTTGATGAAAGCCCAAATATGGAGCTCATTGAACAATGTGCAAAAATGGCACAAA
TACATGACGATATACTTAAAATGCCAATGGGCTATGAGACCTTGATTGGCGATATGGGAA
ATATCTTATCAGGTGGACAGAGGCTTGAGAGTTATTTTGGAGCTGGACGGCGAACAAATC
GTCCGTGCCGACCCGCATATCGGCCTCTTGCACCGAGGTACCGAAAAACTGGCGGAAACC
AAAACCTATCTGCAAGCCCTGCCCTATATGGACCGCTTGGACTATGTTTCCATGATGGTC
AATGAGCAGGCGTATTGTTTGGCAGTAGAAAAACTTGTCGGTATCGATGTGCCCATCCGC
GCCCAATACATCCGCGTGATGTTTGCCGAAGTAACGCGCATTCTCTGTCACTTGATGGGC
ATCGGTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 310>:

gnm_310

TGCCGCTGCTGCTGAAGGGCGCGGACGTGTTCAATACGGGGAATGCGCGTTATGTGCTGA
CGGCTATGTGTATGCCCTTTCCGGCGGTGTCGTGCGTCATCGGGCTGGTGGGGCGGTTCA
GGCTTCAGACGGCATCGGGCAGGGCGGCAAAGTCAGGGGGTGCGGGCAAGGCGGACGGAT
AGGACGCATTTTTCAGCGGGTGCGTCGAGAAGCAGCCGATGTGTTTGGCAGCCGCAGCTT
GGGGGGTGTAGTGCTAATGGCGGTTTCTTTGCTTTTATAGTGGATTAACAAAAACCAGTA
CTGCGTTGCCTCGCCTTAmCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTG
AATCGGTTCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTA
ATCCACTATACCATACAACCACGCCGGAATTAAGTTTAAATTTGAATAAAAGGTTCGGGT
TCTGCAAAATACAGAACCCGAACCTTGTTCGGATATTGAAACCGGCTGCCCGATTTTGGG
CGGTGCGGCTTGCAAGTATCAAGATTCGCATATGCCGTCTGAAGCTCGGAGAGGTTCAGA
CGGCATATGCTTATTTGGGCTGCTCTTCAACGAATCTCGGACCTTTCAAGATGCCGTTGT
GAGAATAGGGCGACAGCAGGTTGTATGCGGCGGTTTTGGAAACCTGATAACCGCGGTCGG
TCAGGCTGTTGGCAATCTGATTGACCACTGCGCTGACCAAAGCCCCCAACAGGCCGCTGT
TGCTGTTGTTGCTGCCTTCGCGGATGCTGGCCGAACCCGACCACAACTCTTTTCCGTTGC
GGGAATCGACCAGCCGTGCTTTGGCGGATACGGTCGTCACGCTGTCTAAAATTTGATATG
AAGTGCCGTATTCGGTAACCGTAATGTACAAAACCGCATCATTGCCGAAAATCTGATGCA
GTTTTTCCGGCCGGACGGCGTGAATATCGGCGGCATTGGTCAAGCCGTTTTGTTTGAAGG
TTTCCTCCACGACTGCGGCGGGGAAGACGTAATAGCCGGCTTCGGAAAGCGGCGCGGCGG
TCGAAGCCAGTACACCCCATGTTCCGTTGACATCGGGCGATTCGTTCAGCGGCGGAACCA
CCAAAATTGAAGCCGGTTTGCTTTCCTTGAATGACGTGTAGTCGAAATCGGGCGCTTTTT
GAACTTGGCAGGCAGACAGCGCCAACACGGCGGCAAGCCCTAAAATCAAAGGTTTCATCG
CTTGCCTCCTTTACCGGTTTTCATCAGGAAGTCCATAAATACGCCCGATTCGGGAAACAG
CCTTTTCTCTTCTTCAAACTGGCGGAACGCGCCCTCTTTGTCTCCCGAACGGGAAAGCAG
CAGTCCCAGATGGGCGTGCGCACCCGGGGCGGCATTCATTTTTTTGTTGCCGGCTTCCAC
AAAGTATTTTTCCATCTTTTCGGTCTGCTTGCCCAACGAAGTGTCGTCGTTTTTCAAACC

TTCATAGACGGTATCGGGATAGCCGCCGTAATAATACAGGGATTTTTGCCCGTTGCCGCC
GCAGGCGGTCAGAGCCAAGACCGCCGCACACAGCGACAAACGGCTCAAGGTTTTCGGATT
CATCATTTCTCCTTAACGGTTGGGTTGCCATGCGCCGTTGTCAACAGCCTGAACCAGGCT
GTTGACGGCTTCGCGGATTGCCAAGTCTAAAACTTTGCCGTTCAAAGTCGCATCGTAGCC
GGAAGTGCCGCCGAAACCGATGATTTCACGGTTGGAAAGTGCGTATTCGCCCGCGCCCTG
TGCGGAATAGACGATTTCGGAAGTATTGACGTTGACGATATTCAGAGCCACTTTTGCATA
GGCGATTTGCGATTTGCCGCGACCCAAAATGCCGAAGAGCTGATGATCGCCGACATCTCT
GCGTCCGAATTCGGTTACATCGCCGGTAACGACATAATCTGCGCCTTTCAGGTTATGCGC
TTTGCCGGAAATGCCGGATTCCTGTTTTAATGCGTTCAAATTGGTGCGGTTCAGTACGTT
GAAGCGGTTGGTCTGTTGCAGGTGCGTTACTAGAATGGTTTTTGCCTGGCTGCCCAAACG
GTCTTCCCCGTCGGAGAAAATGCCTTTTTGGAAGCTGGAGCGGTTGTCGAATGTTCCGAC
GGAAATCGGGGTACGAACACCGTGATATTGCGTATTGTAGGAGGCGACTTTCTCTACCTC
GAGACTGCGTGAGGATTCGGTCGCACAGCCGGTCAGTGAAACGGCAGCGGCGGCAAGGAC
AACGGCGGTGGAAACGGTTTTCATAAAATTTACCCTAAGGTCAAGTTAAGGAAATAACGG
GGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 311>:

GNMDE39F gnm_311

CGTATTGCGCACCGTCCCCAAAGTCTCCGGCGTCTGCGAAGCGTCAAAAAAGATATTCCC
GACAGCGGGTCCCGTCCTGACCGGCGGAGAAAACAATATCGGCTTCGCACAAAGCAAACG
CTTGGCGGAACTCGGCGTCAAGTCCGCATAAGCCGCGTGTTCAGACGGCATGGCGTTCAG
ATGCCGTCTGAACACTTTGCCTGTATAATCCGCATCTTTACTGTCCAACTTCGCGGTTCG
CAAACCTCCCGCGTTACCAAAACTAGGGTTCGATATGTCAAACCAACAAGCCTTGGTCAT
CTTTTCGGGCGGTCAGGATTCGACCACCTGCCTGATTCAGGCAATCCAAACCTACGGGCG
CGAAAACGTCCAAGCCATTACTATCCAATACGGGCAACGCATGCCGTCGAGCTGGAACGT
GCCCGCTGGATTGCGCAGGATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 312>:

gnm_312

GAATATCCAATAAGACAATATGTTCTTTTGAAAAATACTTTTGGwtTTTTCGCCGAAAAC
AGGACGGTTCAAGTTGCGGAAATTGTTTGCAATTCTTTAAAAGCAGCGGCGGAGGTCACA
ATGAAATGTCCGAATGGGGATGTGGCGGGCGGCAGAAATCATCAATGCTGCCGACTGCCA
TACTTCTGAAATCTACAAAATGATGCATCGATCAAACAATATACCGCTTTAAAAAAACCG
ATGCCGTCTGAAACGCTTTCGGGGTTTCAGACGGCATCAAAAGGGTACGGTCAGCGGATG
ATGCCGCGCGCCGATTGTGCGAAAAAGTCTCGGAATACGGCAAGCTCGGCTTGGGTTTCG
GCGCGGCGGAGAATGTCTGCCTTGGCTTCTTCAAACGGAATGCCGCGATGGTAGAGGGTT
TTGTACACGTCTTTGACGGCGGAAATCTGCTCTGCGGTAAAACCGTTGCGGCGCATGCCT
TCGCTGTTGAGCCCCGCCGGTTCGGCGCGGTAGCCCGATGCCATAAAGTAGGGCGGCACG
TCTTTGTGTACGCCTGCGGCAAACGCGGTCATGGCGTAGTCGCCGATGCGGCAGAATTGG
aAAACCAGCGTGTAGCCGCCCAAAACGACGTAGTCGCCGATGGTAACGTGTCCGGCAAGC
GAGGCGTTGTTGGCGAAAATGGTGTGGTTGCCGATGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 313>:

gnm_313

TTATAACATAACAAAATCTTTAACCCACACCGACAAAGGCTGCACCATGAAGAAAACATT
GACACTGCTCGCCGTTTCCGCCCTATTTGCCACATCCGCCCACGCCCACCGCGTCTGGGT

CGAAACCGCCCACACGCACGGCGGCGAATACCTTAAAGCCGACTTGGGCTACGGCGAATT
TCCCGAACTCGAACCCATCGCCAAAGACCGCCTGCACATCTTCAGCAAACCGATGCAGCT
GGTTACCGAAAAAGGCAAGGAAAACATGATTCAACGCGGCACATACAACTACCAGTACCG
AAGCAACCGTCCCGTTAAGGACGGCAGTTACCTCGTCATCGCCGAATATCAGCCTACTTT
CTGGTCAAAAAACAAAGCAGGCTGGAAACAGGCGGGCATCAAAGAAATGCCTGACGCAAG
CTATTGCGAACAAACCCGAATGTTCGGCAAAAACATCGTCAACGTCGGACACGAAAGCGC
GGACACCGCCATCATCACCAAACCGGTCGGACAAAACTTGGAAATCGTCCCGCTGGACAA
TCCCGCCAACATTCACGTAGGCGAACGCTTCAAAGTCCGCGTTCTGTTCCGTGGCGAACC
GCTGCCCAATGCCACCGTTACCGCCACCTTTGACGGCTTCGACACCAGCGACCGCAGCAA
AACGCACAAAACCGAAGCACAGGCTTTCTCCGACAGCACAGACGACAAAGGCGAAGTGGA
CATCATCCCCTTGCGCCAAGGCTTCTGGAAAGCCAATGTCGAACACAAAACCGACTTCCC
CGATCAAAGCGTGTGCCAAAAACAGGCGAACTACTCGACTTTAACCTTCCAAATCGGTCA
TTCGCACCATTAATCCCGCCCGCACAAAAATGCCGTCTGAAGGCTTCAGACGGCATTTTT
TGTTCAAACATCAATACCAACCGCGCAGTTTCATCGCTTTTTCAACACGGCGGATACTCA
TCATGTAAGACGCGGTTCGCAAATCGACATCATACTCTTGCGCCAAGTTCCATATATCGC
GGAACGCGCGTCGCAGGACGACGGTTTCTTTCTCTTGAACTTCGTCAAACTCCCAATAAT
AGCCTTGCAGGTTTTGCACCCACTCGAAATAGGAAACGACCACGCCGCCGCAGTTCGCCA
GAATATCAGGCACGACCAATACGCCGTTTTGACGCAGGATCACGTCGGCTTCGGGCGTAG
TCGGGCCGTTCGCGCCTTCGACTACGATTTTCGCGCGGACTTTACCGGCGTTTTCGGAAG
TCAGTTGGTTTTCCAGCGCGCAAGGGGCGAGTACGTCCACATCCAAAGCCAAAAGTTCGG
CGTTGGTAATTTCTTTGCCGTAACCGGCTTCGTTGGTGATGAAGCCTTTTTCTTGGAACT
CTTTAAACAAAGCTTCCATATCCAAACCGTTTTCGTTGTAAATGGCAACGTCAACAGTAG
AAACCGCAACAACTTTCGCGCCGGATTGATGCGCGTAATAACCTGTGTGGTAACCCACAT
TACCGAAACCTTGAATGGCGTAAGTGGCACCCTTCACGTCCTTGCCCAGTTTTTCCAAAG
CTTGGACGGCGGCGAGGTTCACGCCGTAACCGGTAGCCTCGGTACGCGCCAAAGAGCCGC
CGAACTCAACCGGTTTTCCGGTAAATACGCCCGGCGCGGAATGTTTCACCACGTTTTCAT
AAGCATCCACCATCCACGACATAATTTTGCCGTTGGTATTCACATCGGGGGCGGGAATAT
CGATTTTCTCGCCAATCAGCGGGGCAATCGCTTCAGCATAAGCGCGGGCGATGCGTTCCA
GTTCCGCCTCGGAATAATCGCGCGGATCCAAGGTAATGCCGCCTTTGCCGCCGCCGTAAG
GAATACCCGCAACGCAGCATTTGATGGTCATCCAAATTGACAGGGCTTTGACTTCGTCCA
AATTCACACTGGGATGGAAGCGCACGCCGCCTTTATAGGGGCCGACGGCGTTGTTGTGTT
GCGAACGGTAGCCCGTGAAGGTTTTGACCGTGTCGTCGTCGAGTTTGACGGGAAAATTGA
CTTCCAACACGCGGGTCGGACTCTTCAGGATTTCATAAACGGCCGGATCGGTTTTCAGCC
GGTCACAGGCGGTTTTCACCTGTTTGCGCGCGATTTCAAACGGATTGAGGGTTTCTTTTG
CAAGGGCTTCAGACATTTTGCTTCCTTTTCACAAAGAGAGGTTCGGAATGGAACAAGCCA
TCAGGTTCGCAACTATAACCAATTTTCAAGCAAAATGTAATAGCGTGTAGTTGGAATCGG
CCCGATTTGATTAATCTATATATGATTTTATTTCCCAAGCCGCACGGAATCCGTCTGAAA
AAAGCGGAACACATATCCAAAAAGCAAATGTCCAATTAAATAAAGATATAAGAATCCTTT
TATTTTTTAAAAATTTAATTGGAACGGCGCCGGGATTTGCACACCCTTCCCGACTCCGTT
CCGAAATCCGGAAACACCGCCGGCAAAACCTGTTTCGATTGTTAACAATCCATACATTAG
AAGCCCTGTGCAAACGATGTTAAAATAAACCTTTTCAACCCGACAGAAAACCGGATTATG
AATGCAGCCATCGAACACGTCCAAGCCGTCGCCTTCGATTTGGACGGCACACTGTGCGAT
TCCGTCCCCGACCTTGCCGCCGCCGCAGAAGCGATGTTGGAACAACTCGGTATGAAACCG
CTGCCTGCCAAAGTGGTCGAAAGCTATGTGGGCGACGGCATCGGCAAACTGGTTCACCGC
GTCCTCACCAACGACCGCGACCGCGAAGCCGATTCCGAACTGTGGGAAAAAGGTTTCGTA
TCTATATGAAATACTACCGCGACCATTTGAGCGTCTTCACCCGCCCCTATCCCGAAACCG
AAGCCGGGCTGGCATTGCTTAAATCTTTGGGCATCCCGCTCGCCGTCGTTACCAACAAAA
ACGAAATCCTTGCCTCCGAGCTTCTAAAACAACTGGGACTCGCCGACTATTTTAGCCTGA
TACTCGGCGGCGACAGCCTGCCCGAGAAAAAACCCAGCCCCCTGCCGCTGCGGCACGCCG
CCGAAGTTTTGGGTATCGATGTTGCAAACATGGTTATGGTCGGCGACTCGCGCAACGACA
TCATCGCCGCCAAAGCCGCCGGCTGCCTGAGCGTCGGCGTTACCTTCGGTTACGGCGATA
TGACGCTGCTCTCGCAAGACGATGCGACCCGCCCCGACTGGATTATCGGCTCGCTGCCCG
AAATTTACGAAAACCTGCAACCTCAGAAAAACAAAGAAGAGTAGGCATTCGGACGGCTCC
GGTTTGCGCCGCTATGCCGTCTGAAACCTGCCCCACGCCGAAACCGCCGCCATGAAACCG
CAAAAATCCCTACGCGCCCGCGCGATGGACATCCTCTCGCGCCAAGAACTCAGCCGCATC
GGTCTGAAACGCAAACTTGCACCGCACGCCGAAAGCGAAGAGGAGTTGGAAAACGTGTTA
AACGAATTTGCCGAACGCAACTGGCAGTCGGATTTGCGCTATGCCGAAGCCTATATCCGC

AGCAAAAGCCGCAAACACGGTTCATTGAGGCTGAAACAGGCTTTGGCGCAACAGGGCATA
GATGAAGAAACCAGCCGCAACCTGCTTCCCGACCGCTCAAGCGAAAAACTGGCCGCCATA
GCCGTGTTGCGTAAAAAATTCAAACATCCGGCCGCCGACCTTAAAGAAAAACAAAAACAG
GCACGCTTCCTCGCCTATCGCGGTTTTGATGCCGATACCGTTCAGACGGCATTGAAACAT
GCCTGGGATGACGGCTGGGAGGAAGACTGCTGAACTGAATCCTTGAATCTTTTTGCATGA
CGGCGTAACCTTACCTCCATTTCCAACTTTTCCGATTGAGAATAAAATGTCCGAACAATC
CGAGAAAAATCACAACCCACTTCTTGAAGATGAACGCAAAAACCCGGTTTACCGTATGGG
TCAGGCAGTTGCCGGATTCATGCTCGTCGTTTGGGCAGGCGTATTGGCACTCGTGTTTTT
CCTAGTCTTCCGTTTTTGGCTTTCCTAAACAAAATGCCGTCTGAAACCTTCAGACGGCAT
CGGCAGCCCATTTCGGCAGGCTATCCCATCATAGCTTTTTTTAGCTTGAATTCCACTTTC
CCATTCCCTAAAATTTTTCCACACCCATTTCAAAATACCCTTTCTTAAAACAGGTACACT
ATGACACAACAACGCCAACTGCCTTCGCACGAACTCATTATGTCCGAACTGATGATGCCG
GACACCGCCAATTTCAGCGGCAACGTACACGGCGGCGAACTCCTGCTCCTGCTCGACCAA
GTCGCCTATTCCTGCGCCAGCCGTTACAGCGGCAATTATTGCGTTACCCTGTCGGTTGAC
AAAGTCCTGTTTAAAGAACCCATCCATGTCGGCGACCTGGTTACTTTCTACGCCAGCGTA
AACTACACGGGGCGTACCTCTATGGAAATCGGCATCCGTGTCGAAGCACAAAACATCCGT
ACGGGAGAAATCCGCCATACCAACAGCTGCTACTTCACCATGGTTGCAGTCAAAGACGGC
AAACCCGTCCCTGTCCCTCCGCTGGAAATCCTGACCGACCGCCAACGCTGCCGCTACGAA
AAAGCCAAAAAACGCAGAGACATCAGCCTGCAAGCCTCCGGAGACGTGTCCTGCGGCTGC
TGACGGCGGACTATGCCGTCTGAAAGACAGGCACATCGCGCCATCCGTTTCCATTGCAAA
CGGATGAAATCAAGCAAATATAGTGGATTAAATTCAAACCAGTACGGCGTTGCCTCGCCT
TAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTA
TCTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATACCCAAA
CACAGTCAAACAAATTTATATGCCCCATCCCTTCCGAATAATTTGAAAACACAGCCGCCA
AAAACAAAAATGCCGTCTGAAAACCTTTCAGACGGCATTTCCAACTTGATTTCAGGCAGA
AAGTCAGAACGCGATATAGCTGTTCGGGTTAACCGGTTTGCCGTTTTGACGCACCTCGAA
ATGAAGCTGCGTTCTGGAAGCATCGGTATTGCCCATCAAAGCAACCTGCTGACCGCGTTT
GACCTGCTGCCCCTCGCCGACCAGCAATTTTTGGTTGTGCCCGTATGCGGTCAGGAAAGA
AGAATTATGCTGGATGATGACCAAGTTTCCGTATCCCCTCAAACCTGAACCGGCATAAAC
CACTTTGCCGTCAGCCGCCGCCAAAACGGGCTGTCCCGCATTACCGGCAATATCGACACC
CTTGTTGTTGCCGCCGAAATCGGCAACCACTTTACCTTGCGTCGGACGCTGCCAAACAAT
GCCGCCGACCGAACGCGTGCCGGAAGGCGAAGCGGCAGGAGATTGCGGGGCGGGCGCGGG
AACCGCTTTATTTTCCGCAGCGGGCGCGGCAGGTTGCGGCGCGGACTGCACAGGCGGTTG
CGCGGCGGGTTTCACAGGGGTTTGCACGGCAGCCGGTACGGCGGGCCTGCTTTCTACGGC
TGCGGTTTTCGGTGCGGCATATCCTGCCGGTTTGACTTTAACAATCTGACCGATGCTCAA
CATATTGTCGGTCATGCCGTTCCACGCACGGAAATCGTCTTGAGAGATATGGTAGCGTTT
GGAAATGTTGTACACCGTGTCGCCGCGCACAATAGTATGCGTCGCCGCGTTAATGTCGAC
GGGTGCGGACTGTACGGGCGGTTGCGCGGCAGCCGGTACGGCGGGCCTGCTTTTTACGGC
TGCGGCTTTCGGTGCGGCATATCCTGCCGGTTTGACTTTAACAATCTGACCGATGCTCAA
CGTATTGTCGGTCATGCCGTTCCACGCACGGAAATCGTCTTGAGAGATATGGTAGCGTTT
GGAAATGTTGTACACCGTGTCGCCGCGCACAATAGTATGCGTCGCCGCGTTGATGTCGAC
GGGTGCGTAAGAAGGAACGTATGTACCCGAAACGGCAGGTGCAGACGGCGGAACATAAGC
AGGAGGCGTATAAACCGGCGCGCTTTGCACCGGCGGCACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 314>:

GNMDE70F gnm_314

CCGTCAAAGCCACCGGCGGCAACAGCGCGTTGGGCGGCGACGATTTCGACCACCGCCTGT
TCTGCCGCCTGCTCGAACAAAACGGACTCTCCCAACTCAACGGACAAGACAGCCAACTCC
TGCTCTCGGTCGTCCGCGGCGGCAAAGGACAATTTACCACGCAAACCGAAGCGCGGATTC
AGGCGACGGTTTCAGACGGGATTGGAATCGACACAAGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 315>:

GNMDF12F gnm_315

ATGACGACGCAGGCTTCGTCTATCATACAGGTTTCGTGGATTTCGGGCGTGCGGTTTTGG
AAAGTTCGGATTGCGTTCATTTTTCCTCCTTCGGTAAGGTATATATTGTTAAAGGATTTA
TTAAATATTCCCCCTGATTGCTTTTAAAATCCTGCCTGTTATATCGACCCCGAGTAATGT
TATTATCGGGAATATCAGCTTATATATCATTTTATTGGACTTTTACAGCATAAACCTTAA
ATTATACGCCCTTCTTTTTTATATCAGCATCACACTCTATATTTTTTCTCGTCATTATAAA
AAGCAAAACGAGATATTCGTAGGATAGATAAGAATAAAGATAACTCGATATATCCCTATT
ATTTTCCATTTCCGCATTTTTTTCCAAAATATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 316>:

gnm_316

CAACAAAGCAATCTAGAAACCCGTCATTCCGGAGCAGGCGGGAATCCAGACCTCCGACGC
GGCGGGAATCTATCGGAAATGACTGAAACCCCGAGATTCTAGATTTCACTTCCGTGGGAA
TGACGTGGTGCAGGTTTCCGTATGGATGGATTCGTCATTCCGAGCAGGCGGGAATCCAGA
CCCCCGACGCGGCGGGAATCTATCGGAAATGACTGAAACCCCGCGTTCTAGATTCyCACT
TCCGTGGGAATGACGTGGTGCAGGTTTCCGTATGGATGGATTCGTCATTCCCGACAACAC
CGTAATCTCGAAATTCGTCATTCCGCGCAGGCGGGAATCCAGCCCCCTGACGCGGCGGGA
ATCTATCGGAAATGACTGAAACCCCCGAGATTCTAGATTycACTTCCGTGGGAATGACGT
GGTGCAGGTTTCCGTATGGATGGATTCGTCATTCCGCgCAGGCGGGAATCCAGACCCCTG
ACGCGGCGGGAATCTATCGGAAATGACTGAAACCCCGCGTTCTAGACTCCACTTCnCGTG
GGAATGACGGTTCAGTTGCGCTCCGACAACACCGTAATCTCAAAACCCGTCCGACAACAC
CGCAATCTTGAAACCCGGGATTCCGCAyAGGCGGGAATTCAGACCTGTCCGCACAGAAAC
TTATCGGATAAAAACAGTTGCCCAAACCACGCGTTCTATAGTGGATTAAATTCAAACCAG
TACGGAATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 317>:

gnm_317

GGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCC
TATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTG
CTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTTG
AGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGG
AAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAAT
GCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATG
TGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGT
TGTGTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACG
CCAAGCTCGAAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCTCCACCGCGGTGGCG
GCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA
CCGTCGACCTCGAGGGGGGGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAAT
TCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAAT
CGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGAT
CGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCAAATTGTAAGCGTTAATATT
TTGTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAkGCCGAA
ATCGGCATAATCCCTTATAAATCAAAAGAATAkACCGrkATAkGGTTGAGTGTTGTTCCA
GTTTGGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAACC
GTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCTAATCAAGTTTTTTGGGGTCG
AGGTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGCCCCCGATTTAGAGCTTGACGG
GGAAAGCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGG
GCGCTGGCAAGTGTAGCGGTCAcGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCG
CCGCTACAGGGCGCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 318>:

GNMDI14TR gnm_318

ACCTGCCTATGATTTGCTCTGCCACTTGGGCTTTGCCGTCAAAATGCGTGTGGGTGTGGT
TGTCGATTTGTTTGTCCAATTCGTCAATCAGCCGGTCAAAATGGGCAATCAGTTGTTTGA
CGCTTTCGACTTGCGTTTCATGAACCTAATGCAGACGGTTTTTCTCGGCAGTCCGCATAT
CCACCAGTTGGTTGCGGCGGTTAACCAAGGCTTCCAACACTTCTTCCACTTCGGTGGGCA
GGTGGAAGGGCATTGTTTGCGAATCTGCCGTCGGTAACGTCATCTAGAACTTTAATGGCG
GTAAGCTAGAGCATGTTCGGAGTGGGAAGTACCGTTTTTACCGGTGAAACCTTGAACCAA
TACTTTAGTGTCTTTATTAATCAATACGCTCATTCTTTTCTCCTTAGGCGTTTACGGCTG
CAACAATTTTTTCGGCTGCGTCATTCAGGCCGTCTGCAGAAGTCAGTTTCAGACCTGATT
CGTTCAGGATTTTCGCGCCGAGTTCGGCGTTGTTGCCTTCCAAACGAACAACGACAGGAA
CGTTGACGTTGATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 319>:

gnm_319

CCGCTTTTGAAAAAGACGTTTTAAATGCAGATATCCCCGTCCTGCTGGACTTTTGGGCTC
CGTGGTGCGGCCCCTGCAAAATGATTGCCCCGATTTTGGACGACATTGCCGCCGAATTTG
AAGGCCGTCTGAAAGTGGTCAAAATCAACATCGACGACAACGAAGCCACCCCGTCCCGTT
TCGGCGTGCGCGGCATTCCGACCCTGATGGTGTTCAAAAACGGCGAAGTCGTCGCCACCA
AAGTCGGCGCATTGGCAAAAGGTCAGCTGACCGCCTTTGTCGAAGCCTCTATCGCCTGAT
AAAGCGCAATCGAAAAAGCCGCCGGAAGATTCCGGCGGCTTTTTCGCACCCTTAAGATTT
GTGGCGGATTTCCCAGCACCTATGGATTTTTTTGTTGCGGAAATCTTCGGGAACGGATTG
TTTGGAAATGTCTTTGACGGCGTATTGTTCCGATACCAAGTCGTCTAAGACGAAGCTGCG
CAGGTTGTTGGAAAAGTACAAAATGCCGTCTGAAGCGAGCAGCTTCACCGCGCCGTCAAT
CAGCTTTTTGTGGTCGCGCTGGATGTCGAGGATGTCGGACATTTTCTTGCTGTTGGAAAA
ACTGGGCGGGTCCATCACAATGAGGTCGAACCGCCTGCCTTCCCCATATGCCGTCTGAAG
ATATTGGAACACGTCGGCGCGGACGATTTTGTGTCGTTCCGTATCGATGCCGTTCAATTC
AAAATTGCGTTTCGCCCAATCAAGATATGTGTTGGACAAATCGACGGTTTCGCTGGATGC
CGCGCCGCCGGTGGCGGCATAGACGGTGAAGCTGCCGGTGTAGGAAAACAGGTTTAAAAA
ACGTTTGCCCGCCGCCGTTTCGCCGACTTTTTTGCGCGTGTTTCGATGATCCAAAAAAAG
CCCCGTATCCAAATACTTATCAAGGTTGACCCAAAACTTGCGGCCGTTTTCGGTGATGAC
GAAATCGTCGCCCGCCTTGCCGGTTTTCTCGTACTGCTGCAAACCTTTTTGGCGTTCGCG
GCGTTTGAGGCGGATTTGTTCGGGCGCAAAACCGGTAACGAAAGCGACGGCTTCCAAGAC
TTCGGCAAGCCACGCTTCGTATTCTTCGGGCCGCATCAGCCAGCCGGTATCGTATTCCTG
AAGGTGGATTCGATCGCCGTAAACATCGGCGGCAAAGGGGAATTGGGGGATGTCGCGGTC
GTAAATGCGCCAGGCTTCGATGCCGTTGCGTTTCGCCCATTTCATAAGGTGTTTGATGTT
TTTGCCCAAGCGGTTGGCAAACGGTGTGATGTCGGTCATTGGTTTCAGGCGGAATAAAGT
GGAAAACGGCAATTTTACTGTAATTAACGCCCGATTGCTTGACCGTTTCGGGCAAACCCT
ATACCATCCGTCGCTTATCTTGTCATACGAAGCCATCGCCTTCCAACCTAAACCGCCCTT
ACGGGCGCGTTTCTTCTGTTGCTTTGATTTTGCAAAGCATATCTGTGCAGGTTGCCGTCG
ATGTAAACCACAAGCAAGCCGCTTGCGACAACCCTGTAACTTCACATTCCCCGTATCGTT
ACCCTTCCCTGCTTCAGGCCGTCTGAACCTTTCGGACGCGGGCGTTGTTGTCTTCCAAGG
ATAGCCATGTCTATTAAATTTGCCGATTTGAACCTTGATAAAAACATTTTGTCCGCCGTC
AGCAGCGAGGGTTACGAAAGCCCGACGCCGATTCAGGCGCAAGCCATTCCGTTTGCTTTG
GAAGGCCGCGACATCATGGCTTCGGCGCAAACCGGCTCCGGCAAAACCGCCGCCTTTCTG
TTACCGACTTTGCAAAAACTGACCAAACGCAGCGAAAAACCGGGCAAAGGCCCGCGTGCT
TTGGTGTTGACCCCGACCCGCGAACTGGCGGCTCAAGTCGAGAAAAACGCGCTGGCGTAT
GCCAAAAATATGCGTTGGTTCCGCACCGTCAGCATCGTCGGCGGCGCGTCTTTCGGCTAC
CAAACCCGTGCCCTGAGCAAACCGGTCGATCTGATTGTCGCCACGCCGGGCCGTCTGATG

GACCTGATGCAAAGCGGCAAAGTTGATTTTGAACGTTTGGAAGTGCTGATTTTGGACGAA
GCCGACCGTATGTTGGATATGGGCTTTATCGACGACATCGAAACCATCGTGGAAGCAACG
CCGAGCGACCGTCAGACTTTGTTGTTCTCCGCCACTTGGGACGGCGCGGTCGGCAAACTG
GCGCGCAAACTGACCAAAGACCCTGAAATCATCGAAGTCGAACGCGTGGACGATCAAGGC
AAAATCGAAGAACAACTGCTGTACTGCGACGATATGCGCCACAAAAACCGCCTGCTCGAT
CATATCTTGCGCGATGCCAATATCGATCAATGCGTGATTTTCACGTCCACCAAAGCCATG
ACCGAAGTCATTGCGGATGAACTGTACGAAAAAGGTTTCGCCGCAAACTGCCTGCACGGC
GATATGCCGCAAGGCTGGCGCAACCGCACGCTGATGGATTTGCGTAAAGGCCGCTGCAAA
ATTTTGGTTGCCACCGATGTTGCCGCACGCGGTATCGACGTACCGACCATTACCCACGTT
ATCAACTACGACCTGCCGAAACAGGCGGAAGACTACGTCCACCGCATCGGGCGCACCGGC
CGCGCAGGCCGCACGGGTATTGCGATTACGTTTGCCGAAGTGAACGAATACGTCAAAGTC
CACAAAATCGAAAAATACATTAACCGAAAACTGCCCGAACTGACCATCGAAGGCATGGAA
CCGACCCGCAAACGCAAATCCGCAGGCGGCAAGCCGAAAGGCAAAGGCGGCTGGGGCGAT
CGTAAATCCGGCGGTTGGCGCGGCGATCATAAACCGAGCAAAGAAGGCTTCGGCGGCAAA
ACGCGCGGCGAAGGTTTCAAGAAAGAAGGCTTTAAGAGAGACGGTTTCAAAAAAACCGGC
GAAGGCTTCAAAGGCAAACGCAAAGCCGGCGATTCTTTTGCAGGCAAAGGCGAACGCCGT
TACAAAGACCGCTAAGCCCCAACCTGCCGCATAAACCAATGCCGTCTGAAACCGATTTCG
AGTTTCAGACGGCATTTTTGCAATGTTTCAGCACCGCCCGGCTTTGATACCCAAAGGATT
AGGCTGTAATAAAAACCCTTTTCCGCTTTGGCAACGATTGAAAATTTCCGTAAATTCAAA
TATCTAGATTCCTTCCTGCACGGGAATGACACGGAAGGGTTTCAGATGCAGGGTGGGCAT
TCCTGCCCACCCAATCCCGCCCTTGCAACGGTGGGCAAGAATGCTCGCCCTACGGCTTGA
CTGTTCGATATGATGCCGTCTGAAAACCCAACGGCGGCATGACAATGCCACCCTGCCAAC
GCACGTAAATCAGAATTGCCATCCCGACATCAAACGCTTGGAAACAAAATGCCGTCTGAA
AATCAAACGGCAACATAACAATGTCCCTAACAAATGCAAAAATGCCGTCTGAAAGCTCTT
CAGACGGCATTGGCGCGCCGGGTTTACCGCCTCCTGCCGAAACCGCGCATAGCGGGGCGG
CGGTAATTGGCGGGCGGGCGCGTTGTCGGGCGGTAACGCTGCGCCTGCGCCGCCTGTTGT
TTTGCACGGAGGCTGCGCGTGTTCAAATCCCTGCTGGTGCGCGCATTGGGGCGTGCGGAC
TGATGGTAGGCTGCACGCGCGCGCCGGGCGACGGGACTGTCTTGGTTGCCTGCCCGTGTG
AATTTGTTTGCCAGCGCGTTGCCGATAAACGCGCCTGCCGCCGCGCCGACCAGGCTTTGC
AGCAGCCAGCTTCCTGTCGATTGGTCGTAAATATACTGCTGCCCGTCTTTACCGGTAACG
GGTTGCCCGTTGTTGCCGTTTGCCTGTGCTTCGGCAGGAATGGTGTCTTTGACTGCTTCG
GGAGTCAGTTGGTAAACCGTATCGTCTGCCTGCTGTGCGAGCTGCTGTTGCAGGGCTTCA
ATCTGTTTCTGCTGCTGTTCGAGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 320>:

GNMDI61TF gnm_320

CACCTGCACGCACAATTCGTGTTTCCAACGTTTTGCCGATAAAGGGCATGATTTCGGAGT
GTTCGCCGCGATTCACCATCGCAATTTCCTGCAGACCGGCGATTTCTTCAATGAAACGAA
CGCAACGGGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 321>:

GNMDI91TR gnm_321

TCGCGCACGATGATGGGGGGCAGTTCTACGGAGATAGGGTTGCCTTCGTAGAACGTTACT
ATCGCATTGGTCGTCCATGCCGTCAACGATGAAGTTCAACGCGATCGGGACGCTTAAAGA
CGGTTTTGGCATCGCCGTCGTCCCGCCTCCGATTCTGGAGTTGGGCAACGGTTCGGGTCT
GAGCATCAACCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 322>:

gnm_322

CAAAAACTGTACGTACAGCTAGTTTGCAGACCCGATGTACGTCTTTATGGACGAAGAATT
CAACCAATATGAAATCGAAGTTGACAACATTGGCGATCATTTTAATTTATCGGGTATAGA
CTATTTCGGCGAGGACGAAGATATAGATTTCCACGATTGAATACATGGAAGCCAAGTACG
TCTATCAACACTATATTAAAACACAGCCTTTTATTTTGAGGTTTGGGGTAATTTTTAAAC
CGTCATTCTTACGAAAACAGAAAATCAAAAACAGAAATCTCAAATCCCGTCATTCCyGCG
CAGGyGAGAATCTAGACATTCAATGCTAAGGCAATTTCTCGGAAATGACTGAAACTCAAA
AAACTGGATTCCCACTTTCGTGGGAATGACGGAATGTAGGTTCGTGCGAATGACGTGGTG
CAGGTTTCCGTATGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGACATTCAATG
CTAAGGCAATTTATCGGGAATGACTGAAACTCAAAAAACTGGATTCCCACTTTCGTGGGA
ATGACGCGATTAGAGTTTCAAAATTTATTCTAAATAGCTGAAACTCAACGCACTGGATTC
CCGCCTGCGCGGGAATGACGAAGTGGAAGTTACCCGAAACTTAAAACAAGCGAAACCGAA
CGAACTGGATTCCCACTTTCGTGGGAATGACGGAATGCAGGTTCGTGGGAATGACGGAAT
GCAGGTTCGTGGGAATGACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 323>:

GNMDI95TR gnm_323

TCCACACAACGTCAATAATTCCAACACAAAATACGCCAACCGCATTGGTTTGACACGCCA
GCAACCGCTTTTTGCTTCACAACAGTGATATTGTGTTGGCTTTTCCGTTTAAAGATTGTG
TGTTAAATGGCGGACAAAGCACCGAGGAAGGCGAAGAAATTTATTTTAAACGCAATAACA
GCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGACA
GTCAACCAGCCAGACAGCCACTTATAACAAGGCGAAGACAGCAAAAAACTGCCCGAAATG
AGCGAAGGCGACAAATTGCCCGTGGACAAACTCTACGGCGAACAACACTTTACCACTCCG
CCGCCACGCTACAACGAAGCCACGCTGGTTAAAGCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 324>:

gnm_324

CGCGATAAAGAGCACGTTCCGGTTTCGATTTACTTAGTTAACGGTATCAAATTACAAGGT
CAGGTTGAGTCTTTCGATCAATACGTTGTTCTCCTGAGAAACACTTCCGTCACCCAAATG
GTTTACAAACACGCCATTTCCACCATCGTACCGGCACGCTCCGTCAACCTACAACATGAA
AACAGACCCCAAGCCGCACCGACTTCGACCCTCGTCCAAGTGGAAACCGTCCAGCAGCCT
GCCGAATAATCCGCACGAAGCATGACGTGTCATATCTTTCAATACCTTACCGGACAACGG
TAAGGTATTTTTATTTTCAGACAGCATTTAAAAATGTTATTGCAAAACATCCTTCCATTC
GCCCATTGCCTTTTGCGGAAGGCACTTCCCGAAGGTGGCAATGCTTTGGACGGCACCGCC
GGCAACGGACACGACACCCTTTTCCTCGCACAAACCGCAGGCATCCGGGGGAAAGTGTGG
GCATTCGACATCCAGCCGCAAGCCCTGAACAACACCCGATGCCGTCTGCAGGAAGCAGGT
TACAGCAATGTACGGCTCATCTTGGACGGACATGAAAACCTGAAGCAATATATTCCAAAG
CCGCTGGATGCAGCCATTTTCAATTTCGGCTGGCTGCCCGGCGGGGACAAAAGCCTTACC
ACCCGCACGGAAACCAGCATTGCCGCCCTTTCTGCCACCTTATCCCTACTGAAAGAAAAC
GGTATGCTTATTGCCGTCCTCTATCCGGGACACGAAAACGGCAAACAGGAGGCAGAAGCA
ATCGAACAATGGGCAAAAAACCTGCCTCAAGAACAGTTTGCCGTTTTGCGTTACGGCTTT
ACCAACCGGAAAAACAGCCCACCCTATCTTTTGGTATTTGAAAAACTGCGTCAAAAATAA
CTGTTTGCGGTAAAATAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 325>:

gnm_325

TTGGAAGCCTTCTGCAAAGGTCAGGACACGCTTGCGGGCATTGCTGAAGACGAGCCGACC
GGATGCCGGTCGGTCGTGTCGCTGAACAATACCTGTGTCGCGCTGGCATACCCGAAAGCC
TTGGGCGCGCTGCGTGTCGACAACGCCGTCGTGATTACTTCTCCGCGTTTTACGAGCGTT
CATCAGGTCGCACTCAACCAGTGCATCAAAAAATACGGCGTACAGGGACAATGCGGCTTG
GAAACAGTGTATTGCACATCTTCTTCTTATTACGGCGGAACTGTGCGCTCTTTGATTCAA
AATCTCAAATAAAACGGAAAATGCCGTCTGAAAGATGTTCAGACGGCATTTCTATATCGA
CGGTCAGGATTCTTTCGGATCGGGCAGCAGGCTGTTCAACATAATGGCAAGTACGGCGCA
CAAGCCCACGCCGGCAAAGCTGAAGCTGCCCAATTTGAGCGTCATGCCGCCGATGCCCGT
GGTCAGTACCGAGCTGACGATGACCAGGTTTTTCGGCAGCATCAAATCGACTTTGGCATC
AATCAGCGTTTTCACGCCCAAAGAAGCAATCGTGCCGAACAGCAGCAGCATAATGCCGCC
CATTACTGGCATCGGAATGGAAGCCAAAAACGCATTGAATTTGCCGAAAAACGCCATGCA
GACGGCAAAAACCGCCGCCCAAGTCATGATGACGGGGTTGCTGTTTTTGGTAATCATCAC
CGCACCCGTTACTTCGCCGTAGGTCGTAACCGGCGGGCCGCCGATCAGACCCGCAACGCA
TACGCCCAAACCGTCGCCTGCAAGGGTTTTGTCCAAGCCCGGGTCTTTCGTATAGTCTTT
CCCCGTCACATTGCCGATTGCCATGATGCCGCCGATGTGTTCGATGGCGGGGGCGACGGC
AACGGGCAGCATAAACAGTGCAGCCTGCCAGTTGATCTGAGGCGTTTCAAAATGGGGAAC
GGCGAACCAGGGCGCGTGTGCAATGCTTGCCGTGTCCACCAGTCCCATCAGCAGTGCCAA
AACATAACCCGAAGCGACACCGATCAAGATGGGAATCAGCTTCATCATCCTGCTGCCGAA
AACCGATACGATGGCGGTAACGGCAAAGGTAAAGCCGGAAAGATCAGCGAATCGGTATAG
TCGATGACCTGTTTGCCGTCCGCCTGACnCATTGCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 326>:

gnm_326

AAAAATTGGGTGGTTTTACCAAAAwTTTAAGGGGAATTTTAACAAATTATTAACGCTTAC
AATTTGCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTC
TTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAAC
GCCAGGGTTTTCCCAGTCACGACGTTGTAAAACGACGGCCAGTGAATTGTAATACGACTC
ACTATAGGGCGAATTGGGTACCGGGCCCCCCCTmGAGGTCGACGGTATCGATAAGCTTGA
TATCGAATTCCTGCAGCCCGGGGGATCCACTAGTTsTAGAGCGGCCGCCACCGCGGTGGA
GCTACCAGCTTTTGATTACCCTTATAGTGACGGGTTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 327>:

gnm_327

TTGAAGAAATATGCAGGGGAGGGTATATGCGGATTTTTACTTTCAGCTTAATGTGTmTCA
AATCGGGTGTGGGGTATGTATAGTGGATTAAATTTAAACCAGTACGGCGTTGCCTCGCCT
TGCCGTACTATTTGTACTGTCTGCGGCTTCGTCGcCTTGTCCTGATTTyTGTTAATCCAC
TATAAAAAGCCGCATCGTGAAAAGATGCGGCTTCAGGTATCGGTTGGATTATTCTTCAGA
ACCGGTGTAAGGACGGATGCTGACAGTTTTACGGTTCAGCGCGCCTTTGGTTTTGAATTC
GACATAACCGTCAACTTTGGCGAACAAAGTGTGGTCTTTGCCCATACCTACGTTGTCGCC
TGCGTGGAATTTGGTACCGCGTTGGCGTACGATGATGGAACCTGCGGGAATCAGCTCGTT
GCCGTAGGCTTTAACGCCCAAGCGTTTGGCTTCTGAATCGCGACCGTTGCGGGTGCTGCC
GCCTGCTTTTTTACTTGCCATTTGTAATGCTCCTAAGTTTTAAGGTTAGGCGATTGCCAC
GATTTCGATTTGGGTGAAATTTTGGCGGTGGCCTTGGCGTTTTTGGTAGTGTTTGCGGCG
GCGCATTTTGAAGATGCGGACTTTTTCGCCACGACCGTGTGCCACTACTTTAGCCGTTAC
TTTTGCACCTTCGATAAAGGGTGCGCCAACTTTTACAGATTCGCCGTCAGCAATCATCAA
AACTTCGGTCAGTTCGATTTGGCTGTCGAGTTCGGCTGGTATCTGTTCTACTTTCAATTT
TTCGCCGACGGAAACTTTATACTGTTTGCCGCCGGTTTTTACGACCGCGTACATACTCAA
CTCCATAAGGGTTATGGTTAATATCCnGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 328>:

gnm_328

GTAAGATTCACCGTCTGGAAGACTGGGGTCGCCGCCAGCTGGCTTACCCGATTAACAAAA
TCCATAAAGCCCATTACGTTTTGATGAACATCGAAACCACTCCCGAAGTGGTTGAAGAGC
TGGAAACCGCATTCCGCTTCAATGATGCArTATTGCGTCATCTGACCATCAAAACCAAAC
ACGCCGTTACCGAAGCATCCCCTATGTTGGGTGGTGAAAAGGCTAAGAACCTGTTGAGCG
GTGCGTCTGAAGAAGCGGTCGCCCAATAATTGGGATTCAATAATCTTGTTTCGCTTGCCG
CGTTAATTGAAAAGGTTTTCCCTATTCGATATACGCCTGCCGGAATCCCTGTTTTAGATA
TTATTTTAAAGCACGAATCGTGGCAGGAGGAAAACGGGCAGCAATGCCTTGTCCAATTGG
AAATTCCGGCACGGATTTTAGGCAGGCAGGCGGAAGAGTGGCAGTATCGGCAAGGTGTAT
ATGTTCACGTCGAAGGTTTTTTAGCTCAAAAAAGCAGACGTTCCCTTATGCCGATGCTCA
GGATACAAAATATTCAAGAATATAAAGGTTAAACGACAATGGCTCGTCAATCATTCAAAC
GTAGAAAATTCTGCCGTTTCACGGCTGAAAAAATCCAAGAAGTCGATTACAAACAAGTTG
ATTTGCTGAAAGACTTCATCTCCGAAAACGGTAAAATCATTCCTGCACGCATCACAGGAA
CGAAGGCATTCTACCAACGCCAATTGGCTGTTGCCGTAAAACGCGCACGCTTCCTGGCTC
TGCTGCCTTACACCGACCAACACAAATAATTTTGGAGATTGAATCATGCAAATTATTCTG
TTAGAAAAAATCGGCGGTCTGGGCAACTTGGGCGACATCGTAACCGTTAAAAACGGCTAC
GCCCGCAACTTTCTAATTCCCGCAGGTAAGGCAAAACGTGCGACCGAAGCGAATATGAAA
GAGTTTGAAGCACGCCGCGCAGAACTGGAAGCCAAACAGGCTGAAATTTTGGCAGATGCC
CGAGTCCGTCAGGAAAAATTGGACGGTCAAACCGTTACCGTTGCTCAAAAAGCTGGTGTG
GACGGTCGCCTGTTCGGTTCCGTTACCAATGCCGACATTGCTGCTGCAATCGTTGCTGCC
GGCATCGAAGCCGTGAAAGCAAATGTACGTCTGCCGAACGGTCCTCTGAAAGCCGTTGGC
GAGTACGAATGGAAGTGGCTTTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 329>:

GNMDN42TR gnm_329

GGAGCGATGTAGCCCCATTCGGCGAGGACGGTCGTCATACCGGCGTTGCGCCCCGCCTGT
ATATCGCGTTCCGCGTCGCCGACGTAGAGTGTGTGTTGCGGGTCGGCGTGGATTTGTCCG
CACGCATACAGCATGGGTTTGACGCTGGGCTTGGGCTCGCCGCAGGTGTCGCCGCTGACG
ACGACGGCGGGTGGGATGATGAAGCCGAGTTTGGGGACGAGTTTGTCGGTGAAGCGCATG
GGTTTGTTGGTGATGATGCCCCATTTGATGCCGCGTTTTCCGAGTTCGGCGATGAGTTCG
TTTACGCCGTCGAAGAGGGTGGTGTCTTGGGCGTAGCGGCTGTCGTAATCCGCAAGGGAA
TCCGGTGCGCAATCGGGCATAGTCGGGATGGTCGGGGGTGATGCCTGCGCCGAGCTTGAT
CAGTCCTGCCGCGCCGTGGCTGGCTTGGGTGCGGATTTCGTCCATGCTTTTTGCAGGTAG
TCCGTGGCGGGCGAGCAAGGTGTTGAGTGCGCCGCCGAGGTCTAAGGCGGTGTCGGCGAG
CGTGCCATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 330>:

gnm_330

ACGAGCCGAGCAACCATTTGnGATATCGACGCGATGAATCCGGCGGCAAGGTTTGCCTGA
TAGCAGACGAACACCAGCCCGACATCAAGCTGTCCGCTTGAGGCGAGTCCGCGCGAATAG
CTGTAGGCGCGGCGGAAGAGGCGGTGTTTTTTGAGGAATTCGGGATCGCGCGGATTCGCC
AGGCGTATATGGCTGTCTTTGGGCGTGATATCACCCTCGGGGTCTTTGGCAAAATCCGGT
TGGTCGGCTTCTTTTTTGCCGTCCATCGGCGCACCGCTGTATTTGCGCCGCCCGAAAATG
TCGGTTTGCTCTTGAAGCGGCGTCCTGTCCCAAAACTCGACAAAGTGGCGGATAAGGCGG
ACTGCCTGATAGCTGCCGTTTTTCGCCCACTCCGGTTCGTCGAGGCTGTTGGCGGCCACC

CCCGTCCACAAAACCTCGTCGGCAGTTTTGGGATCGGAAACTTTGGGGTTGCCCGTGCCG
TCCCTGAAGCCCAACAGGTTGCGCGCCGCCATCGCGCCGGGTTCGGATTTGGGCTGCCAC
CCGTCGATACTCCAACGGATAACGGCGGTTTGGACGGTGTGTTTGATGATGTCGCGCAGG
CGGCTTGGCAGGTTTCGGGGGTGAAGGCACAGATTTGCAGGCTCAAATCGCCGTCGCACC
AGCTTTTTTGCAGCTTATCGTTGGAGAAGTCGCGCATTTCCTGCAAATGAATCGGTTTTT
TGTCTTTGAGTCCGAACCGGCCGTCAAACAGGCTGCTGCCCACCCCCACGGTAACGGTCA
ACCCGTCGGGGTTGAAGGCTTTGCCCAAAATGCCGCTGCCGGCTGGCGGAAGTTTGTCGT
CGCCGTCTTGGTAATCGCCGCCTTTGGTGAGAAACTCGATGCGGGCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 331>:

GNMDO70R gnm_331

AAAAACCAGGTTTGGCATCCTCCAATAAAGAAGCGCGCGGCTTTGCAAAACCAGCCCAAG
GTAAAGGGGAATGGGCAATATTCAACAATAAAGGACAAAGACAGGGAACGCAAATTTATC
TATAATAAAAGCGGCCGGGGTGGAGGCTCTGTCTTTTTCGACAATACCGATACCCTTGTT
TCCCGACAAAGCGGTACTGCCGTTTTTGGCACAGCCACCTACCTGCCGCCCTACGGCAAG
GTTTCCGGTTTTGATGCCGACGGGCTGAAAGAGCGCGGCAATGCCGTTAATTGGATTCAT
ACGACCCACCCAGGGTTGATAGGCTACAGCTACACCAGTGTCGTATGCAGAGACAGCACA
GGCTGTCCCAAACTTGTGCTATAAAACCCGATTTTCCTTCGACAACACCGGTTTGGCAAA
AAATGCGGGCAGCCTGGATAGGCACCCGGACCCAAGCCGCGAAAATTCGCCCATTTACAA
ATTGAAGGATCATCCATGGTTGGGCGTGTCTTTCAATTTGGGCAGCGAGAATACCGTCAA
AAATGGCAACTCATTCAACAAATTGATATCTTCTTTTAGTGAAGACAATAATAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 332>:

gnm_332

GCCGGCGGCGGAAGAGGCGTTTTCAAAGTTCAAATGGAAACGTTGCCGcTkCAAawAmAG
CrAkTGTACACCGTCAAAAACGTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAG
CCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACcTTAGAGAAT
CGTTCTCTTTGAGCTAAGGCGAGGTAACGCCGTACTGGTTTTTGTTAATCCACTATAACG
CAAGCACCGCAAAGCCGCGCCAACCCTCTCCCAACCTTTTTTCAGACGGCATTTTCGGTA
ATCTGCTAAAATCGCCCGCTTGAGTTTCCACAGAAAAATCCGAAAAATGAATATTTTTTA
CGAAGAGTCCGGCCAATTCAAAATCGCCGCCATCATCCAAAAAAACGATGCCACCTACCA
AGTCGATACCCCACACGGCAAACGCACCAAAGTGAAGGCGAACAACGTCTTTGCCGAGTT
TGACGGCGATATGGCGGCGTTTTTGGAAAACGCGCAGGCACAGGCGGCGGACATCGACAC
CGATTTATTGTGGGAAGTATGCGGCGAAGAGGAATTTACCGCCGAAGCCATCGCCGAAGA
ATATTACGGCCATGCGCCGACCAAAACCGAGCTGGCGGCAACTTTGATTGCGCTTTACGC
CGCGCCGATGTATTTCTACAAAAAAGCCAAAGGCGTGTTCAAAGCCGCGCCCGAAGAAAC
TTTAAAACAAGCACTTGCCGCCATCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 333>:

gnm_333

TGGGCAGAGAATTGTGTTCATGTCTGGCATTGATTTTTCCTGTCCCATTATCATCGTCGT
TAAAAGAGTATTTCCCATTTTGACGTGGTTCGTAGAATACTGAATGGGTATACTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 334>:

GNMDQ93TF gnm_334

CCCCGTAAGAAGAAGGCAAAAGCGATTTACAGATCAAATGGCAGCAGAATAAACCCATAC
GGTTCAGTATCGGTATAGATGATGCGGGCGGCAAAACGACCGGCAAATATCAAGGAAATG
TCGCTTTATCGTTCGATAACCCTTTGGGCTTAAGCGATTTGTTTTATGTTTCATATGGAC
GCGGTTTGGCGCACAAAACGGACTTGACTGATGTGTGGACGACTTAAACTGAAAGCGGGT
CCAGAAGTTACAGCGTGCATTATTCGGTGCCCGTAAAAAAATGGCTGTTTTCTTTTAATC
ACAATGGACATCGTTACCACGAAGCAACCGAAGGCTATTCCGTCAATTACGATTACAACG
GCAAACAATATCAGAGCAGCCTGGCCGCCGAGCGCATGCTTTGGCGTAACAGACTTCATA
AAACTTCAGTCGGAATGAnATTATGGACACGCCAAACCTATAAATACATCGACGATGCCG
AGATCGAAGTACAACGCCGCCGCTCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 335>:

gnm_335

CCTGAAACGCTGGAAGCCAAAATGCTGACCGGCAAATCCGGTTACGATTTGGTCGTGCCG
GGCATCGCCTTCCTGCCGCGCCAAATCGAGGCGGGCGCGTATCAAAAAGTCAACAAAGAC
CTGATTCCCAACTATAAAAACATCGATCCCGAACTCTTGAAAATGCTGGAAACCGCCGAC
CCGGGCAACCAGTATGCCGTCCCCTATTTCTCCGGCGTGAACACGATTGCGATTACGGCG
AAGGGCAAAGAGCTTTTGGGCGGCAAGCTGCCCGAAAACGGCTGGGATTTGCTGTTCAAA
CCCGAATACACCCACAAGCTGAAATCCTGCGGCATCGCCCTGTGGGACACCCCGAGTGAA
ATGTTCCCGATTTTGCTGAACTACTTGGGCAAAGACCCCAAAGGCTCGAATCCTGAAGAC
TTGAAGGCGGCGGCGGAAGTGTTGAAGTCTATCCGTCCGGATGTCAAACGTTTCAGCCCG
TCCATCATCGACGAGCTGGCACGCGGCGACATCTGCCTGGCGGCAGGCAACGGCGGCGAT
TTGAACTTGGCGAAAGCACGTTCCGAGGAAGTGAAAAACAACGTCGGCATCGAAGTGCTG
ACACCGAAAGGTATGGGCTTCTGGATTGAGTCTTGGCTGATTCCCGCCGATGCGAAAAAC
GTCGCCAATGCCCACAAATACATCAACTACACGCTCGACCCCGAAATCGCGGCGAAAAAC
GGCATCGCCGTAACCTTTGCCCCCGCCAGCAAACCGGCGCGCGAAAAAATGCCTGCCGAG
CTGGTGAACACCCGTTCCATCTTCCCGAACGAGCAGGATATGAAAGACGGTTTCGTGATG
CCGCAAATGAGCACGGATGCGAAAAAACTGTCTGTCAGCCTGTGGCAGAAAATCAAAGTC
GGCACCAACTGATTTGAAGCATTAAAAATGCCGTCCGAACGATGTTCGGACGGCATTTTA
TATTGGATTGAAATAGAAATATTTATATAGTGGATTAACAAAAATCAGGACAAGGCGACA
AAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAG
AATCGTTCTCTTTGAGCTAAGGCGAGCCAACGCCGTACTGGTTTTTGTTAATCCACTATA
CCGTCGTTCCCACGGTCAGGATTTCAGATTGCGGACATCTGTCAGAAAAGACAAAAAACC
TTCCGCCGTCATTCCCTACAGGCGAGAATCCGATCCGTTGAAATTCGGTTGTTTTAAATA
AATTCTTGCAGCTTTGATTTTCTGTTTTTCCGATAACGCCGTAACTTTGAAACGCGAAAG
CGGTAATCCGATCCGTTGGGATTTTGCAACTTCAAATCAATCCGCAAACTGAAATCCCGT
CATTCCCGCGCAGTCGTGAATCCGAACGCGTCCGCACGAAAACCTGCATCCCGTCATTCC
CACGGAAGTGGGAATCTAGGACGTAAAATCTCAAGAAACCGTTTTATCCGATAAGTTTCC
GCACCGACAGACCTGGATTCCCGCCTGCGCGGGAATGACGAAATTTCGGCGAGCCGTAGG
GTGGGCTGTAAGGTCGGCGTCCAGCCCGAAATGTTTGCGGTTGCCCGCTTCGGCGCGGAC
TTCAAACAATGGCTTGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 336>:

GNMDS61TR gnm_336

CTTAGATCTCATACCATGTCATTGTGACTTACCCTCCAGGAAGCTTCCTCACTCTGAGAA
GGCCCCATTATTTGTTTTTTCCAAGATGCTGACTGGTAAATATTTCTAGGAAAAAATAGA
AATGATTCTACTTTGTTTGTCTATAAATTCATCGTCCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 337>:

GNMDV66R gnm_337

CTTCAGGGTACTTTGAATTTTTTTTCAATATATCTGCCATATGTTTTTGTTAGCCGAATT
TTTAGGAATACCAACCAACGCCAGGAGTATAAAAATGATTGAACTTCAACTTCATGAATT
GAAGCTGGTTTCAGGGGGAGGTCCTGTAACAGACAATATAGCTGGAAATGTAGCTAATGC
TGCCACAACCAAAGGAGGTCCCACATGGGGGGATTTGGTTGCAATACCTGCTGCCGCAGC
GGCAGTTTATTATCTGCCGAAAAATGCTTACGGTGCTGCTGGTGCAAATGGTGTATACAA
TGTGACTCGTAATTGGGTAAATGATGCCGTTAATGCACCTCCTTATAACGGAAGACCAAT
CTTTGAGATTGAACATGGATTAACTGCTCCCGCAACAAAAGCAGATAAATCAGGGAACGG
CTACACTGACGGTACAGATTACTGCTGATATTTCTCATCGTCCAGACAATCTCTAGGGGT
CGTCTGAAACTTTCTTAACTTCAATTTTATGAATAGACCCAAGCAACCCTTCTTCCGTCC
CGAAGTCGCCGTTGCCCGCCAAACCAGCCTTTTTTTTTTTTTTTTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 338>:

GNMDW68F gnm_338

CCGCCGGATTTTCTCCTCTTTTAATATAGTAAAATTCATGACCCCTATGGGATTTTCAGG
AATATGTCTTTTATCTTCATAAGCCTCGTATTCAGGATAGGCAGATGGCATTTTTTTAAC
CCCGTAAGTGAGCAATCTTTCTCCCATAGTCGTGCTTAAACTACACGCATCTTTTCGGAT
AACAATATCGTCCACGCTATCCAAACCGTCGCGTAGAAATTGGATAAAGTGCGCTTTGTT
TTGCTGGATGTATGGCTCGAGCACCCAGCCTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 339>:

GNMDZ09R gnm_339

TGGAGTACCCGCAGAAGAAATCTGGGCATTGCCATTTCAACATATCGCCGCCGGCTTTCG
CGCTATACCACATAAAGGGCAGGGACGCGGCAAGCAGCCAGTGGAAAAGGCGGGTGGGGA
TGTCCCAGACTTTGGTTTTGTTTTTCATAATCGGTTTCCGGCGGTAGAATCGGTTTGTTT
TCGAGCCTTATTTTAACCGATTGGAGGGGCAATGTTTCCCGTTTTTCATCTTTCATGCGA
GAGCCGCCGCCAGATGCTTCAGACGGCATTGCGTTTTCCCCATGTGTTCAAAGCCCGTGC
GGAAGATTCGGACATAGGGACTTTCGGCACGCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 340>:

GNMEB54TFB gnm_340

CCTGCCCGGTGCTGGAAGGTTAATTGAAGATGTGAGAGCATCGGATCGAAGCCCCAGTAA
ACGGCGGCCGTAACTATAACGGTCCTAAGGTAACGAAATTCCTTGTCGGGTAAGTTCCGA
CCCGCACGAATGGCGTAACGATGGCCACACTGTCTCCTCCTGAGACTCAGCGAAGTTGAA
GTGGTTGTGAAGATGCAGTCTACCCGCTGCTAGACGGCAAGACCCCGTGAACCTTTACTG
TAGCTTTGCATTGGACTTTGAAGTCACTTGTGTACAGATACGTGGGAGGCTTAGAAGCAG
AGACACCAGTCTCTGTGGAGCCGTCCTTGAAATACCACCCTGGTGTCTTTGAGGTTCTAA
CCCAGACCCGTCATCCGGGTCGGGGACAGTGCAAGGTAGGCATTTTGACTGGGGCGGTCT
CCTCTCAAAGCGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 341>:

gnm_341

CTCGGTACCCGAGCATTACGAATTCGAGCTCGGTACCCTGCGACAGGGCGGCAATCAGGC
GGTTGCGGCGCGGAAAATTGCCGGCATACGGCCGCGTGCCGATGGGGAACTCGCTGACAA
TCAATCCTTTTTCGGCGATTTCATAGGCAAGGTTTTTGTTGACCGGCGGATAAATGCGGT
CTATGCCCGTCCCCCACACGGCGATGGTGCCGCCTTCTGCCTGCAACGCACCCTGATGGG
CGGCGGTATCGATGCCCGAAGCCATACCCGACACAACGGGAATGCCTTTCCCACCCAACG
ACTTGCCGAAATCTTTGGCAATCCGCATCGCCTGCGGCGTGGCATGACGGCTGCCGACGA
TGGCGGCGGAAGGTTTGTGCAGCAGTTGCACGTTGCCGCGCAAAAACAAAACCGGTGGCG
CGGTCAGCCCCTGCGTCAGCATTTCGGGAAAATCTTCATCCTGAAGCAGCATCAGGCGGC
ATCCGTCaCGCATTTCnCATTCCAATGCCGCTTCTGCCGCCTGCCGCGCCAGAGCGCGTT
TTTCCGCATTGCGCCAAGCCTCAAGCGCCTGTTTGTGCCGTATCAGTGCCGCCAACTGTT
CCGCCGGTGCGGACAAGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 342>:

gnm_342

AAAATCAGAAAAGCCTTGGCGGGCTTTTGGAAGGCACTGCCCCACCTTAACGACACCATG
CTGCTGTTTACGGGATTGTGGCTGATGAAAATTACCCATTTCTCCCCGTTCAACGCGCCT
TGGCTCGGTACAAAAATCCTGCTTCTGCTCGCCTATATCGCATTGGGTATGATGATGATG
CGCGCCCGTCCGCGTTCGACCAAGTTCTACACCGTTTACCTGCTCGCCATGTGTTGCGTC
GCCTGCATCGTTTACCTTGCCAAAACCAAAGTCCTGCCTTTCTGAAACACCGTTATGAAC
AACAGACATTTTGCCGTCATCGCCCTGGGCAGTAATCTTGAAAACCCTGCCCAACAGGTA
CGCGCCGCATTGGACACGCTGTCGTCCCATCCTGACATCCGTCTTAAACAGGCTTCCTCA
CTGTATATGACCGCGCCCGTCGGTTACGACAATCAGCCCGATTTTGTCAATGCCGTCTGC
ACCGTTTCCACCACTCTGGACGGCATTGCCCTGCTTGCCGAACTCAACCGTATCGAGGCT
GATTTCGGACGCGAACGCAGCTTCCGCAACGCGCCGCGCACATTGGATTTGGACATTATC
GACTTTGACGGCATCTCCAGCGACGACACCCGACTCACCCTGCCGCATCCGCGCGCGCAC
GAACGCAGTTTCGTCATCCGCCCTTTGGCAGAAATCCTCCCTGATTTTGTTTTAGGAAAA
CACGGAAAGGTTGCCGAATTGTCAAAACGGCTGGGCAATCAAGGTATCCGTCTTTTACCG
GACAGGTAATTCCGCACGCGGATGCCGTCTGAAAGCCTTTCAGACGGCATTTTTCCTTTG
CCGCCAACACGCGTGCAAAAAAATCGCCCCTTGGAAAAGGGGGCGCAAAAGGAACACAAA
CCACTACCAAAACTTTAAATCTGAAACACTGCCTGCCGCATACTGTATCCGACAGGATAT
AAAGCCCTCACTAAATCGTTTCGAGAAATCCAAACTTCTTCATCGCCGACAGAAAATCTG
CCTTTCTCCGGTACCAGCTCCAACAGAAACGGTTGAACCGCCGTATGCAGCCTGTCCTTA
CACCGCCCCAGCTTTCTGGACAACGCGGACAGGGCGCGTTTGTAGGCATTATCCTTGCAG
TCAAGCTCCCGCGCACTGCCGACCCAGCTCAAACGAAGGTTGCGGCTTTCATCCTCAATC
AGCAAAATGCCTGTTTTGACTTCCCCCACCTCGGGCTCGCATGAAAGCGCAATATAATAT
TTGCCGTCGATGTTGACATACGCCGCTTCATGCACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 343>:

GNMED25TR gnm_343

TAAGTTTCCGTACCGACAGACCTGGATTCCCGCCTGCGCGGGAATGACGAAGCTATCCTT
TTGGCCGAAGGTCAAAAATCAGCCGTCACAGAGTATTACCTGAATCACGGCGAATGGCCC
GGCAACAACACTTCTGCCGCCTGGGAACCTCCTCAACAATCCAAGGGAAATATGTTAAAG
GAATTACAATCCCAAACGGGGTCAATAACGGCAAAATGCCTTCAAGCCGGGTTAACAAAG
AAATCCAAGGGAAAAAACTCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 344>:

GNMEE40TR gnm_344

AGTGCTTGTGTTGTTTGCACCGGTTGCTTTCGGATAATCGTGGGTAATGCGTTCGGCGGC
ATAAGCTAAATCCGCCTGCACATAATACGGGCTGCGGCTGCCGTCTTCACTTGCCGCCTG
CGCTGCGGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAA
GAGAAGAGAAGAGAAGAGAAGGTTTTTTGGGGGCTGGATTCATTTTCGGCTCCGTATTCG
GTTTTAACTGATTAAAAAGAAAGATTTTCAATGATGTTGCAGGAGCGGACTATATCACGT
TTGTGGCGATGTTTCAACACAATATAGCGGATGAACAAAAAAGAGAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 345>:

gnm_345

ACGGGACCTTTGATGCTGATGCTGCTGGTCGGCACGGGTATTTTGCTGACTGTTTTATTA
AAAGGTTTGCAGTTCACGATGTTGGGTTATGCGCTGAAACAGGCGTTTATGCCGCCAAAG
AAGCATAAAAGCGGCGAAGGCCACGAAGGCGATATTTCCCATTTTGCGGCGTTGATGACC
GCGCTGTCCGCCACCATCGGCACGGGTAACATCGCCGGCGTGGCGACTGCGGTGGTAACC
GGCGGCCCGGGCGCGGTATTTTGGATGTGGATGACCGCCATTTTCGGCATGGCCACCAAA
TACGGCGAAGGCGTGTTGGCGGTGAAATACCGCGTCAACAATTCCAAAGGCGAAATGTCC
GGCGGCCCGATGTATTACATCGAAAAAGGCTTGGGCAAAAACTGGAAATGGATGGCCGTC
GCGTTTGCGCTGTTCGGCACATTCGCTTCCTTCGGTATCGGCAGCTCGGTGCAGTCCAAC
TCGGTTGCACAGGCGGTGCAAACCAGCTTCGGTATCGAACCTGCCTATACCGGCATTACG
TTGACCGTTCTGACTGCCGTTGTCGTTTTAGGTGGTATTAAAGGCATCGCCAAAGCCGCT
TCTTTCATCGTGCCTGCTATGGCGGTGTTTTATGTGTTGGGCGGTCTTTCCATTATCGCG
ATTAATTCCGATGCACTGATGCCTGCCGTCAAGCTGATTTTCTCCGATGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 346>:

GNMEG32TF gnm_346

AAAACGGTAAAATCAATTCATACTTGAATACGTTCTGCGCCTGCCGGCTGGGAACAGGCG
CACGGATAATGCTTTGCCGAGTGCGTTTTTAATAAACAATTCCGTTTTAAAGTAAACCGT
TTCATGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 347>:

GNMEI01TR gnm_347

TACCCGGTTCTTAAAGTTGAAAACGTCTCATTCAGATATGCTGATAATGAGCCATATCTT
TTTGAACACATTAATTTGGAATTTAGAGATAATGAAGCAGTTGTTTTAACAGGACAATCT
GGTCGGGGGAAGTCCACTTTGTTAAACATTTTAACAGGTAGCCTAAAACCTGAAACTGGT
ACAGTTAGTATTAATGGGCATGATATATATCAAGTTTCTCCATCCTTTATTAGGGGATTG
AGCGGGATTGTTCGCCAAGATGATGTCCTTTTTGCAGGTTCTATTGGGGAAAATATTTCA
TTTTTTGATGAAAGCCCACATATGGAGCTCATTGAACAATGTGCACACGTGGTACACATA
CATGATCCATATACTTAACATGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 348>:

gnm_348

AAAAGTTGATAAATGGTAGTAGCATATGGTCTCATAATTTCAAGCTTAGAAATTAGTTAA
AGAATAGGGGCTGTCCTAGATAACTAGCGAAATTCAAATTAAGTTAGAATTATCCnTATG
AGAAAAAGTCGTCTAAGCCAGTATAAACAAAATAAACTCATTGAGCTATTTGTCACAGGT
GTAACTGCAAGAACGGCAGCAGAGTTAGTAGGCGTTAATAAAAATACCGCAGCGTATTAT
TTTCATCGTTTACGATTACTTATGTATCAAAACAGTCCGCATTTGGAAATGTTTGATGGC
GAAGTAGAAGCAGATGAAAGTTATTTTGGCGGACAACGCAAAGGCAAACGCGTTCGCGGT
GCTGCCGGTAAAGTCGCCGTATTCGGTCTTTTGAAGCGAAATGGTAAGGTTTATACGGTT
ACAGTACCGAATACTCAAACCGCTACTTTATTTCCTATTATCCGTGAACAAGTGAAACCT
GACAGCATTTTTTATACGGATTGTTATCGTAGCTATGATGTATTAGATGTGCGCGAATTT
AGCCATTTTAGCTTCGCTGAAACTTCGTTTTCGTATCAATCACAGCACACATTTTGCCGA
ACGACAAAACCATATTAATGGAATTGAGAACTTTTGGAATCAGGCAAAACGTCATTTACG
CAAGTTTAACGGCATTCCCAAAGCGCATTTTGAGCTGTATTTAAAGGAGTGCGAATGGCG
TTTTAACAACAGTGAGATAAAAGTTCTTGTTCCATTTTAAAACAATTAGTAAAATCAAGT
TTGTCCTAGTTATCTAGGACAGCCCCTTGTTTTTTGTTCGGCGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 349>:

gnm_349

CACATCCGTGCCTGTGTCATTGTCAAAAATACCGTAAATAGATTGTATATCCTTTTTATC
AACATCATCCTCACTCAAATCACTGCCCGATACCGACAGATAACCACGCGTTTGTCTTTC
AGTTTGGAAACGGCGGGCGCGGAGGTAATCGGCTTATCCAGCGTGCCTTTAAAAATAGTA
CGTACAGACCATTTGGTCGGATCGTTGTTGCTCAAATCAAAGCGGTACATATTCCCGCCG
CGGTCGCCGGCATAGGCGATATCGACCGTGCCGTCCAAATCTTTATCCACCAACGTGGGG
GACGAAAGCCCGCCCTTGCCGTCGGGTACGTTGATTGTTGCAATCGGCGTACCGTTGTTG
TTTTCCAAATCATACACATACAGCGCGGTTTTATTCTCGCCGTTGTTAATGTCTTTAGTC
GCATAACCGGAGGCGATGAAGGCGGCGTATTTGCCGTTGTGGGTTTTGCCGATTTGCGGC
GTACCGACGGTGTAGCCTAATTTCACGCCATTGTCGTTTTTGACATCAAACATGGAAACG
CCGGCCGGGTTGCTGTTGTCGATTTTGCTTAAATCCAAGGCGTATGCGCCTCTGCCGCCA
AAGCCCATTGCGCCGAACATAAAGAAGTGTTTTTGCTTGTCTTGGTCATCTGTAATGCGG
CGCAAGACAAAGCCGCCGTCCACGCCATAGCGGTCGCCCACATAGCCTTTTTCGGCAAAG
GTGCGCAGCTCTTTGGCAAGGGTGGATTCGGTGTTTTGAATATCCTTGCGCGGCATCGTG
CCCTTTCAGACGGCAGCAGCTTTTGGATTACCGGCGAAGACGCGCGTGCCGACGTACAGG
TTTTGCGTGCCGAAAGCTGCGCGGTGCTGACCGGCATCGGCACGGTGTTGGCGGACAATC
CCCGGCTCAACGTCCGCGCTTTTCCAACTTTGCGCCAACCCGCACGCATCGTTTTAGACA
GCCGCCTGCGCCTGCCCCCGAACAGCCATTTGGTTACCGACGGACAATCTCCGACCTACA
TCGCCACACTCGAACGCAACGAAGACAGACTGCACCCCTATCGGGAACACGCACACGTCC
GCATCCTGATGCCGTCTGAAACGGCAGACAGCAAAATCGACCTGCACCACCTGATGCGCC
TCCTTGCTGACGAAGGTTTCGGCGAAATCATGGTCGAAGCAGGCTCCGAACTCACATCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 350>:

gnm_350

TCAAGGCATTTTTTTTTCGATTTTGATAGTCTGCAACTTGAAACAAAACCTACAATATTGT
CAATATCGGCAATTCCCCCATCAAAATCCGCCAAATCAAAAATATAAAAAGGGATGTCCT
CGATGGGCATATCGCGTATTACTTGTTCAATCCATAACTTGAATTCATTTAAATCAATAG
ACTGAGAGAATAAGCATTTAATTGCAAATCCTAAATCATCACTATCCTCTTTTATGATTT
TCCACATAATTATCTTCCTTTGCCGTCAAACGCTCTTTTAGTTACCCGCTTTATATCAAA
AATACCGTCTGAAAGCCGAATATCGTTTCAGACGGCATTTTGACTGTTTAAAGCGGGGGC
AGTTCTACAAACGGAAAGAAATGCTGAAATTTCTGATAAATTTCAGGATGTTTCTCTAAA
GCTTTTAATGCTTTTTCTTTTGAAATAGGCGGATCATAGACATCTATCCCCCTTAAGAAG

GCAATGCCGGTCAAGGCATTTTTTTTGGATTTTGATAGTCTGCAACTTGAAACAAAACCT
ACAATATTGTCAATATCGGCAATTCCCCaTCAAAATCCGCCAAATCAAAAATATAAAAAG
GGATGTCCTCGATGGGCATATCGCGTATTACTTGTTCAATCCATAACTTGAATTCATTTA
AATCAATAGACTGAGAGAATAAGCATTTAATTGCAAATCCTAAATCATCACTATCCTCTT
TTATGATTTTCCACATAATTATCTTCCTTTGCCGTCAAACGCTCTTTTAGTTACCCGCTT
TATATCAAAAATACCGTCTGAAAGCCGAATATCGTTTCAGACGGCATTTTGACTGTTTAA
AGCGGGGGCAGTTCTACAAACGGAAAGAAATGCTGAAATTTCTGATAAATTTCAGGATGT
TTCTCTAAGGCTTTTAATGCTTTTTCTTTTGAAATAGGCGGATCATAGACATCTATCCCC
CTTAAGAAGGCAATGCCGGTCAAGGCATTTTTTTTCGATTTTGATAGTCTGCAACTTGAA
ACAAAACCTACAATATTGTCAATATCGGCAATTCCCCCATCAAAATCCGCCAAATCAAAA
ATATAAAAAGGGATGTCCTCGATGGGCATATCGCGTATTACTTGTTCAATCCATAACTTG
AATTCATTTAAATCAATAGACTGAGAGAATAAGCATTTAATTGCAAATCCTAAATCATCA
CTATCCTCTTTTATGATTTTCCACATAATTATCTTCCTTTGCCGTCAAACGCTCTTTTAG
TTACCCGCTTTATATCAAAAATACCGTCTGAAAGCCGAATATCGTTTCAGACGGCATTTT
GACTGTTTAAAGCGGGGGCAGTTCTACAAACGGAAAGAAATGCTGAAATTTCTGATAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 351>:

GNMEI43TR gnm_351

TACCCTCAGGATTGGCATATTGATCCCGATAACCATTTCTCCAACAACCCCGACTTTGTG
GACTCCTGGCCGCCACATGGGGTTGTTGGCACCGACGAAGCTGAGATTCATCCGGCGATC
GCTAAGATTCCTGTCGACGCACGGGTTAAGAAAGGCCAATACGCTGCAGCCTATTCCGGG
TCAATTTATTAAGCTTCCTATCAACCTCCCATCTCGGTTTCGCATCAAACACAGGCTTAG
CCTTAGGTATACCGCCCCCCGATTTACCCACACTGAACAAATCTATAGAGAACTGAACAT
ATTCCGCAGCCTGCTCCGACAGCCCCAACTGCTTCAAGGCCTGAACCGCAATCGTCGGTC
GTTGCTCGCTGGCTTTTTTTCCGAAGTTTTTCGTCCCAGTAATGACATGATCGTAGGAAG
ACGTTACACCAACCAAAGCGGCGGCACAGCCTAAGCCGAAAGTCTCGGCACAAGATCCGC
CTCCGGCTACTCCTGAAAGAACAACCCCCAAACTGCCCGAAACGATTTCAGCCCCGGGTG
AGATGTAGCGGTGCAGGATACTTTTGTCTTCCCTATCCAGCTTTTCGTATTCAGCCTTCA
AATAAGAGGCTACTAAATCAGGATGTTTAGTTAGGTAATATAAGGATTCCTTTTTTAAGT
CCTTAAACCTACTGTCAAAGCGTTTGTCCTGGGTAAATTCGATAATGCGTCCTATATTTT
GACGACATTCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 352>:

GNMEI51TR gnm_352

TCAATACAGTTTCAAAATGGAAAATGATACGTTCACTTTGGATTTTAGTGGTCTTGTTCA
AGCATTTAACCATGTCACAGAAGCTAATCCGCAAAAAGCTTTTGTGGATTTGGCCGAGAT
GCTTGCATATGGCGAACTTCGTTCTTGGTATGAAGGCCGAAGACTAATGACCGATTATGT
GGAGGAGGCATCACAAGCAGGTAAATTTGAAGATTACCAGAAAGTGTTGGGTCAGGAGAC
CGTTGCATTATTAGCTAAAACATCGGGTACGCAAGCACATGATATCCTGCACAATGTATG
CTTTGGTCATAATAAAAATGTTTCTTTATATGGCAATCACAGGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 353>:

GNMEJ36TF gnm_353

CCGCGCTTGAAACGTCCGCTTGCAGATACTACAGAAAGAGTGTTTCAAACCTGCTCTATG
AAAGGGAATGTTCAGTTCTGTGACTTGAATGCAAACATCACAAAGAAGTTCCTGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 354>:

GNMEJ53TR gnm_354

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 355>:

GNMEJ56TR gnm_355

CAACAGTCGCACTACAAAAGCCACCGCGCGCCGTACCCGCCCTTGGTATAATGTGGACGT
GTCCGGTTATTACACGGTTAAGAAACACTTTACCCTCCGTGCGGGCGTGTACAACCTCCT
CAACTACCGCTATGTTACTTGGGAAAATGTGCGGCAAACTGCCGGCGGCGCACTCAACCA
ACACACATATGTCGGCGTTTACAACCGATATGCCGCCCCCGGTCGCAACTACACATTTAG
CTTGGCAATGAAGTTCTAAACGTCCAAACGCCGCAAATGCCGTCTGAAAGGCTTCAGACG
GCATTTTTTACACAATCCCCGCCATTTTCCATCATCCCCGATACACCGTAATCTCGAAAC
CCGTCATTCCCGCGCACGCGGGAATCCAGTCCGTGCGGTTTCGGTTTTTTTGAAGTTTCG
GGTAACTTCTAAACCGTTATTCCCGCGAAAACAGCAGTCAAAAACAGAAACCTCAAGTCC
CGTTATTCCCGATCAGACGGGATCTACGGCGTAAAATCTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 356>:

GNMEK63TR gnm_356

CGCCGCATCGGGCAATTTGCCTTTTTTCAGTCCGGCTTCGAGTTTGTCGGATGCAAGTTT
CAAGAGTCTGTCGTGTGTGTCGTTGTCCATAAAGGGCAGTTGTCCGGAGGTGGATTTTTG
TGCCAGTTCTTTAAAAAGGTTGCCGAAGCTGTTTTTGCGGTAACTGTTGCCGTTGAGGGC
GGGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 357>:

GNMEK86TFB gnm_357

TCGACTCTAGTAGATCCCGCGATGGCCCTTCCATACAGAACCACCGGATCACTATGTCCT
GCTTTCGCACCTGCTCGACTTGTCGGTCTCGCAGTTAAGCTACCTTTTGCCATTGCACTA
TCAGTCCGATTTCCGACCGGACCTAGGTAACCTTCGAACTCCTCCGTTACGCTTTGGGAG
GAGACCGCCCCAGTCAAACTGCCTACCATGCACGGTCCCCGACCCGGATGACGGGTCTGG
GTTAGAACCTCAAAGACACCAGGGTGGTATTTCAAGGACGGCTCCACAGAGACTGGCGTC
TCTGCTTCTAAGCCTCCCACCTATCCTACACAAGTGACTTCAAAGTCCAATGCAAAGCTA
CAGTAAAGGTTCACGGGGTCTTTCCGTCTAGCAGCGGGTAGATTGCATCTTCACAACCAC
TTCAACTTCGCTGAGTCTCAGGAGGAGACAGTGTGGCCATCGTTACGCCATTCGTGCGGG
TCGGAACTTACCCGACAAGGAATTTCGCTACCTTAGGACCGTTATAGTTACGGCCGCCGT
TTACTGGGGCTTCGATCCGATGCTCTCAAATCTTCAATTAACCTTCCAGCACCGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 358>:

gnm_358

GCGGCAATGCCGTCTGGAAAAGCGGATACCGCCCTGCTGTTGTACGGGTGCGGCTTCTAT
TTGCGCCGTTGCGGCAACTTTGGCAACTTTGGCAACTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 359>:

GNMEL61R gnm_359

CCCGCAAGTGGCGAGGGGGCAAGCAAAGAGCCGAAAGACAGGGGGGACCGCAGACAGGGG
CGAAAGCAGGAGCGGGGAGGGCAGAAGCCAGGGGGGCGGCAACAACGGAAGCCGCAGGGG
GGAAGGAACGGGGGCAGCAGCGGCCGGGGAGCGAAACCGGCAGGGGCAGGGGCAAAAGAA
GCCGGAGAGGAAGACGGGGAGCAGGGCAGAAAAAGAGCAGCAGAAGACAGAGCGGCCGAA
GCAGAGACAACGGGGGTGAGTGTGGGACGGACCCAAAACCCGGGGGGCGCTGGGGCGACG
AGACGGAAAGGCAGAAGAGGGCCAACCGAAGCAAAAGCACGGGAAACAGCAGCCAGCAAA
GCCGGCGGCGCGAGGGGGGGGGCCAAGGCCGGACAAGCTCGGAAAGAGAGCCAAAGACAC
AGCGGCAAAGAGAAAAAAAGGAGGAGGGAGAAGCGGGGGGGCCAGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 360>:

GNMEN01TR gnm_360

CCAATGCAGGATCCGAGCCGAGTATGCAACCTACACCACAGCTGGCGGATTTGCACAAAT
TGAACCTTGTGATGCTGGGTGATGAAGCGCACCATTTAAACGCGCAAACCAAAGGCAAAA
AACAAGGCGAATTAGATTTAGAAAAGGAAATGAACGACCGCACCAGCAATGCCGAAATTG
AACGTAAAGGCTGGGAGCATATGGTTTTGGAATTGTTACTCAATAAAAATGGCAATCATA
GCCAAAATGTGCTGTTGGAATTTACCGCCACGCTGCCTGAAAATGCCGATGTACAACAAA
AATACGCTGATAAAATCATCACAAAATTTGGCTTAAAAGAATTTTTGCAAAAAGGTTATA
CCAAAGAAATCAATTTGGTATCCAGTACGCTGGGTAAGAAAGAGCGAGTGTTACACGCTT
TATTGTTTGCTTGGTATCGACATCGAATTGCGTTGAAATATGGCATTGCCAATTTCAAGC
CTGTGATGTTGTTTAGAAGTAAGACGATTGATGAATCAAAAGCGGATTATCTGGCATTTT
TAAATTGGGCAGAAAATGTGCAGGCGGTTGATTTTTCGTTTTTAACTACATTTTCAACAA
GCTTGAACGATAGCGATAGCGATAACGCCAACGAACAAGGCAAAACCCGCACTGAACAAG
CCCTAAAATTTATGCAGGAAAAAGGCGTTGAGTTTGCACATTTGGCAGATTGGGTAAAAC
AGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 361>:

GNMEP25TE72 gnm_361

TTCGGACATTCCTTAAATTACCCGTGTATCGCTGTAAATCTTAGAGATGGCGGAATATAG
CGGATTAACACAAGGCATTACTGCAATGCTCAGGATTCCGGTACAGGGTCATCGTTGCAC
ATTTAGCCAAACGGCCGTGACCGATTTCACGGCGTTTCGGTGCGCCCATGCGGCCCACTT
CGCCGGTAGAGTACGGCGGAAAGTTGTAGTGCAGCATAAAGCGGTCGGTGTATTCGCCGG
ACAGCGCGTCGATGATTTGCTCGTCGCGCGAAGTACCCAAAGTTGCAACGGCCAAAGCTT
GGGTTTCGCCACGGGTAAACAATGCAGAACCGTGCGTGCGCGGCAATACGCTGGTTTGGA
TGTTCAGCGGACGGACGGTGCGGGTGTCGCGGCCGTCGATGCGCGGTTGGCCATCCAAAA
TTTGGCTGCGGACGACATCGGCTTCCAAGTGTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 362>:

gnm_362

GCATTGTCTTGTTGCCCTTACTTTTAGCATCTTGTATCGGCGGCAATTTCGGCGTGCAGC
CTGTTGTCGAATCAACGCCGACCGCGTACCCCGTCACCTTCAAATCTAAGGACGTTCCCA
CTCCGCCCCCTGCCGGGTCTTCGGTAGAAACCACGCCGGTCAACCGGCCCGCCGTCGGTG
CGGCAATGCGGCTGCCAAGGCGGAATATTGCTTCCTATAAACAAGACGGTACGGAAATTC
CCGACAAGCATCAGGCAGAGGAGCATCTGCCGCTTAAAGAGAAGGATATCCTGTTTTTAG
ACGGTACGCTGAAAGAACAGGCTGACAAACTTAAAAAGAAAATCAACGAACGGTATTCTG
ATGTGAGGGTTATCACATCGAAAAAAGAAGAAGAAAAATATCAATATCAATTTGTCCGTG
CGGGCTATGTGTTTACCAGGGCGGAAGGAAAGGATAATGAAAAAGAAAAGACTTCTGATG
GTAAGGAGTTTGTTAACCGATTTAGTTATGACGGTTTTGTATATTATTCCGGAGAACGTC
CTTCCCAATCTTTACCGAGCGCGGGAACGGTGCAATATTCCGGTAACTGGCAATATATGA
CCGATGCCAAACGTCATCGGACAnGTAAGGCGGTTTyCAGTACGGATTTGGGTTATACCA
CATATTATGGtAATGAAATTGGGGCAACTTCTTATGAGGCTAGGGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 363>:

GNMEP68TB22A gnm_363

ACATGGCATTCGGACTTCATGCGTTCGTGCGCGGCTTCGGCTTTTCAGACGGCATATTTG
ACGTTATGATTAAACAGTTAACAAGATTTATCACAACGCCGTCAAGAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 364>:

GNMEP74TR gnm_364

ACTTCAGCCTCCCAAGTAACTGGCATTACAGGCATGCGCCACCATGCCCAGGTAATTTTT
TTTTTTTGTATTTTTAGTAGAGACGGGGTTTTGCCATATTGTCCAGGCTACTCTTGAACT
CCTGCCCTCAAGTGATCCGCTTACCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAG
CCACCATGCCCAGCCATCCTTGTTATTCAACCCTACCACACTTTAAAATCTCTGACAGGG
AGTAAGTATGCAAAACGCTCCCATCCGGTCAGGCGCAGTTCTGCCACGAGGTCAAGATAA
GCAGGCAGTTCGCTGCGGGTGCCGGAGAAGAAGACAAATGGCGGCCGCACCATTGCCATC
AGGCGCAGAAACTCTACCATGCCGAAGTAGTTCATCGCGTnCCCTTTTCCCCGGCGGCGC
GGCTTTGGTTTGAACGCGCGTCGTGCTGCCTGCCTTTCAGTTCGCTGATATACGCCTGCC
GGCAGTGGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 365>:

gnm_365

CCTGCAGTTTCTCGATATAGCCTTCTGCATCGGTACGGGTATGTAGGTTGTAACCGGGTT
TGTAGAGGCCGTTTTTCTTTATCCAACGGGCATCGCTGTCCTTACTCGGTGTGGTTTGAC
CGCTGATTTGTCCTTCTTCGTCAACTTCTATGGCCTGACGCTGTTTGCTGCCGGCGGTCT
GAATAATGGTGGCGTCAACGACGGCAGCGGATGCTTTCTCTATTTTTAAACCTTTTTCGG
TCAGTTGGCGGTTAATCAGTTCCAACAGTTCAGACAGGGTATTGTCTTGCGCCACCGGTT
GCGGTACGGCATAAGGTGCTGTAATCGGGGATGCTCAGTTCGTCAAAACGGCAAAACAGG
TTGAAATCGATGCGGGTAATGAGGCTGTGTTCGAGTTCGGGATCGGAGAGGCTGTGCCAT
TGTCCGAGCAGGACGGCTTTGAACATGGACAGCAGGGGATAGGCAGGACGGCCGCGGTGG
TCTCTAAGGTAACGGGTTTTTTGACGGTTCAGGTATTGTTCGATCAGCTGCCAATCAATC
ACCCGGTCCAACTTCAATAGCGGGAArCGGTCGATGTGTTTGGCAATCATGGCTTGGGCG
GTTTGyTGgAaAGGTGCTCTTGAGAAATCCCCTAAATGTCTTGGTGGGAATTTAGGGGAT
TTTGGGGAATTTTGCAAAGGTCTCTAGATGAGTGAAAAAGAAGTGCAGGCTGCCTAAAAA

GACAGAAAAAGTCTTTCCGGCAGCCTGCACTTTGGTTTCATTTCAGTCAGTAAACCCAGT
AAACGACGGTCTGAAAACGCAGAACGTTACGAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 366>:

GNMEQ90R gnm_366

GCTTTGCCGTCAAGCGCGCCGCCAGTTGATTTGGTTGCGCGCGTGGTTTGGGAGAAGCTT
GCGGAATACGCGCCAATACGTCGCCTTTACCGATTTCCTGACCTTCGCGTACGGTAATCA
CCGCACCAACGGGGAATGCCATGGATACCGGAGTAGAAGTACCGGGAATACAGATTTCCA
CGCCGTTTTCGTCCAAGAGTTTCACAGTCGGACGCAGCAGTGTCGTCTTCTTGAGAGGAA
CGACGTTTACCGTCAATCACCACCAAAGTGGACAAACCGGTTACATCATCGGTTTGTTTG
GCAACGGTAACGCCCTCTTCCACGTTTTCGAATTTCACCATACCTGCGTGTTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 367>:

GNMEQ91R gnm_367

CAAAAGTTTTTCAAATGAAACGGTTGCGGCATCGGGCGGTGTCGACGTTGATTTGGTTCC
CGTGTGGTAGGGGAGGAAGCGGCTTCCTTCAAACCTGCCTTTGATTGCTGTTGTGCGCGC
GGTGATGGGGAATCGGGAGAGGTCGGCGGTATGTGTGCCGCCGGTATTGTCGATTGTGCC
GCTGTTTTTTCCCGTCTGCCTGATGCGGACAAGGGCTTTTCCGCTCCGCAAACCGGCAAG
CATGGGGACGGAGATAAAATCGTCGGGAATACCGTAGATCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 368>:

GNMEQ92R gnm_368

GAAACGGTTGCGGCATCGGGCGGTGTCCATTTGTATCCGCCGTCCTTCGGGGGCGCGGTT
GATGTTGACGCAGATTCCGCTGCGTTTGACCGATGATGTTCGCGCGGTGATGGGGAATCG
GGAGAGGTCGGCGGTATGTGTGCCGCCGGTATTGTCGATTGTGCCGCTGTTTTTTCCCGT
CTGCCTGATGCGGACAAGGGCTTTTCCGCTCCGCAAACCGGCAGGCATGGGGACGGAGAT
AAAATCGTCGGGAATACCGTAAATCGGGAAGCGGGCTTGTGCCGTCCGCCTGTCGTCGCC
C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 369>:

gnm_369

CATCGGGCGGTGTCCATTTGTATCCGCCGTCCTTCGGGGGCGCGGTTGATGTTGACGCAG
ATTCCGCTGTGTTTGCCCATTATGTTCGGCTGCGGGATAAGCAACATTTATGAGCGGCTA
AAAATGGGACGCCGGTATTCTCGATTGTACCGCTGTTTTTTCCCGTCTGCCTGATGCGGA
CAAGGGCTTTTCCGCTCCGCAAACCGGCAAGCAGGGGGACGGAGATAAAATCGTCGGGAA
TACCGTAAATCGGGAAGCGGGCTTGTGCCGTCCGCCTGTCGTCGCCCTTCAGCACCGGTT
CGTAATAGCCGGTAACCGTACCGTCAAGGCTTCCGTTGCCTGCAACCTGCCACGGCGTGA
AATAGCGTTCAAAAAACTGTTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 370>:

GNMER68TR gnm_370

CACTGTGCCGCCGCTTTGCCCGTCGGTGCGGCAAGCGCGATGTTGGGAAGATTTTCGTCT
TCACCGCAAATCAGCGCCAGCAGTTTGGCAACCGTTGTCGTTTTGCCCGTTCCCGGCCCG
CCGGTAATCACCATAAAAGACTGCAACAGTGCCAAGGCGGCGGCATCGCGCTGCCCTTCG
CTGCCCGTGCCTTGAAACCATTTTGCGAGGTTTTGCCTCGCGCCTGCCGCGTCGGGGGCG
GATGTGCCGGCTGCCGCCAAGCGTTTTATCTCGGCAGCCAAATCGTATTCCAACTGCCAC
ATCCTGCCCAAAAACAGCCTTCTGCCTTCCAnAATCAAAGGCGCGGCGGATGTTCCGACA
ACnGGTGCGAGTGCCGACAGCGCGTCAGCCTCGCCACCGCTCAAACGGATATTGAACTTT
TCTCCACTGCGGTCTACGCCTGCGACTGTGATAATGCCTTTTTGAGCGTCTTTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 371>:

GNMER69TR gnm_371

CAGGCAGGTTCGGTCGGTTGCAGCCACTTCAACGACTCCGGCTTCTGGCTGGTCGGCCGT
CTCTTGGACATGGACGTACCGACCACGCTGAAAACCTGGACGGTCAACCAAACCCTCATC
GCACTCATCGGCTTTGCCTTGTCCGCACTGCTGTTCGCCATCGTCTGACAGACGGAAAGG
ATAGTAAATGACTACGCATTTTGTCGTTATGGGCGTATGCGGCTGCGGCAAGACCACCGC
CGCGCTGTCCCTGCAGAAACACCTCGGTCAATGTCCCTATGCCGAAGGCGACGAGTTCCA
CACCCAAGCCAACCGCGACAAGATGGGCGCGGGTATTCCGCTGACCGATGAAGACCGCTA
TCCGTGGTTGGGCAATCTGCGCGACTGGATGACGCAACAGGCGCAAAACGGTGCGAACCA
CACCATCGTAACCTGTTCCGCCCGTACGAATGACCGTTTTTGCAATGCCTGAAACAGGCG
TTCGGTGCAGTTTGCAAGCACTTCGTCGCCGGAACCCGCATAGTGTTCCAGAAAACGGAT
TGCCGCCCTTGCCGCCGCTTGGGCAAATTCATCTGTCTGCCGTTCCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 372>:

GNMER70TR gnm_372

ACTGGAAAGTGCGCATCGAAGATGCCATTGCCGCCGACGAAGTGTTCGTTACGCTGATGG
GCGACGAGGTCGAGCCGCGCCGTAGCCTTTATCGAACAACAACGCGCTGATTGCCCAAAA
TATCGACGCATAAGTGCCGTTTTAAAAAAGGAGACGGGCATCGTGCCGCGTCTCCTTTTT
GGTTGGTCAAACGGAACCTGTGCCGTCTGAAAAACCGTCGGAGCAAAATATGATCAGCAT
TTTCGATATTTTCAAAATCGGTATCGGGCCTTCCAGTTCGCATACGGTCGGCCCGATGAA
GGCAGCCGCCGCCTTTGCGGCAGGTTTGGATGCACAGGCTGTTCGCATCGTCATCGACAT
TTACGGCTCGCTCGCACTGACCGGATACGGACACGGTACATTTGACGCGCTGACAAACGC
GGCTACCGCGACATTCTGCGCGGAGCCGAAGGCAAAGCTGCCTTCATCCACCTCAGTCCG
CCGCAAGACATCAACCTCGAGCGCATGATGTCGCGCAGAGGACATTACATGAAAGCAGGG
ATGCTCGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 373>:

GNMER71TR gnm_373

CGGCATGCGGATTGAACATGATGATGTCGCGGTCTTTAAACGTACCTGGTTCGCCTTCGT
CGGTGTTGCAAACCACATATTTTTCGCCCGGGAAAGAACGGGGCATAAAGCTCCATTTCA
AACCGGTCGGGAAGCCCGCACCGCCGCGCCCGCGCAAACCGGAGGTTTTGACTTCGTCAA
TCACATCGGTTTGCGAGATGTTTTCGGACAGAATTTTACGCAGGGCGGTATAGCCGCCGC
GTTTGACGTATTCGTCCAATGTCCAGCAATCGGGATTGGCGGTATCCACTTGGTCAAAAA
TCACGCCTGATTGGTAAATAGCCATTTTTGGTGTGCCTGTTTGTTTTCGTATCGGTTGCG
GTCGCTGTTTCAGACGACCTTAAGATGTCTTTGTGTACCGGCTTGTAACGTCGTCTGAAA

TAAAATCTAGTTTATCAAATCGCTCGGTTTGGAAGGCAGCCTGCCGCACGACATCCCGCT
TGCCGGCATTCCCGAACGCCTCGAACGCATCCGCACGCAGCACATCCTCCGGCTCAACGG
GCAAGAAATCGGCTTCATCCCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 374>:

GNMER72TR gnm_374

CGAAAGCGGGAATGCCGAATCCGTCCGCGCGGAAACCTGCATCCCGTCATTCCCGCGAAA
GAGGGAATCTAGAAACGCAAAGCTGCAAGAGTTTATCGGAAATGACCGAAACTCAACGAA
CCTGGATTCCCGCTTTCGCGGGAATGACGGGGGTTTGGCGGGAATGACGAGGGTTTGGGA
TTTCTGTTTTTGAATTTCTGTTTTTGTGAGAATGGCAAGATTTTCGGTTCTTGTATGGAT
AACGAGATTTTAGATGGCGGGAATTTGTCGGGAAAACAGCAATCTGAGACCTTTGCAAAA
ATAATCTGTTAACGAAATTTGACGCATAAAAATGCGCCAAAAAATTTTCAATTGCCTAAA
ACCTTCCTAATATTGAGCAAAAAGTAGGAGAAATCAGAAAAGTTTTGCACGATATTTTCA
GACGACCTTTAATCGTTTTTGTTGGATCTCGnACACTTGCTTGTCTGTCGTCATTCCCGC
CAnGCGGGAATCCATCCTCAATGGTAAGCAATGTCTTATTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 375>:

GNMER73TR gnm_375

CGGCAATACCGATAACGGTCAAATCCACATAACGGTTGTTGGCAAATGCTTGGCGCACCA
TCAAATGCGCCAGCGAGCCTTGTCCGAACAAATCGGCCGCCTCGGCATCGCTAAATAGTT
GCACCGGCTCTAAGGCGGGCTGTATGCCCGCGGTCAGCATGGGTGCAACCATCAATACCT
TTTGCGGATTTTGCGGCAAACCTTGTACGGCATTGCGGGTGTTAAATTCAATATACTGCC
CGGGCACGCGGATGCTGCCCGGAATCGTGTCAAAATCAATATGGGGCATCATTACTCTCC
CTTAGTATTGCGGGTTTTGGTATTTGGGGCGGCATCCTCAACCACCACCAAATCGCCGTC
ATCAATCATGCGGCGGTAATACAGGCTGTTGCCGTCCAACTCCACCGGCTCTTGGCCGAT
ATATTCGTGCGGGTTGTGTTTTTTGAAAATGAGATTGAGCATAAAATTTTAGTAACCTAT
GTTATTGCAAAGGTCTCAATCTTTACCGTCATTCCCACGAAAGTGGGAATCTAGAAACGC
AAAGTTGCAAGAATTTATCGGAAATGACCGAGACTCAACGAACCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 376>:

gnm_376

GGGCGTTGATTGCGATTGTAGGGTTTGTAGGCTGGAAAAGTTACGGCATTTTTAAAGTTT
ACAGCAwAGCCACAGACAGCCGGATTGAGCAGGAAGCGCAAAAAGAAAGCGTTGTGCAGA
CGATGACGGAGCAGCCTGCATCATCAGAGGAAATGCCTTTAAAAAATTCAGACAATTTGA
AACCTGAAGACTTTGTGCCGACTTTACCCGAAAAGCCCGAAAGCAAGCCTATTTATAACA
CAGTCCGACAAGTAAAAACCTTTGAGCAAATCGCCGGATGTATAGACGGCGGAAAATCAG
ATTGCACATGCTATTCAAATCAAGGAACACCCTTGAAAGAAATAACAAAGATAATGTGTA
AAGAATATGTGAAAAACGGGTTGCCTTTCAATCCTTATAAGGACGAACAGCAAAGGACGG
AACAGGTGGAACAGTCCGCGAAAGCGGACAAGCCGCAAGTTCTCGTAATGGGCGGAAAGC
CGTAGCAAAATCTCATGTACGACAACTGAAGAGCGCGGAAAACCGTTTGAAGGAATTGGC
GGCGGAGTCGTAAAGCAGAAAGTTCAATCCCTACCCCTCAGGATGGCTTGAGCTGAGTGA
AGGGGGTTAATTGCTAGAATGGCTGTTTTTTTTAAAGTGTCTCAGTCTGGAATCGCTTCG
TTCGGGGGTTGTAGGTGCAGGAAAATATGGCAGAAAAAAGGAAACGGGGGAAGCTTTGTA
AAGATTGGGCGCGCTTTTTACCCAATCTTTATGAATACCCCCTTTTCCTTTTTTATGAAC
TGTTTTTCAGTACCGGTAACTCTCGAACGGAGTGATTCGAGACTGAGATACGCCCATTGA
AAATCAGACATTCGGGTCGCATCAGAAACCTTTACCAAGACCTGCGACCCCAATCTACGG

CAACGGCGACAATATGCCCGATGAGAACTGCTGCCGTTGTTCGACAAAATCAATTTGCAG
CAAGGCAAGCATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 377>:

GNMER76TR gnm_377

CCGCCGAAGCAATCGAGGCGGCGTGGATATTGTTGGTAATCACCCTCAGGCTGCCGCGCC
GCCTGACCAGCTCCGACACCACGGCCTCCATCGTCGTGCCGATACTGACAAACAGCGACG
AACCGTCGGGGATGTGTTCCGCAATCAGCCGGGCAATGGCGTTTTTTTCGTTTTGACACC
GGGTTTGGCGGTCGGCGGGCAGGCCCTCCGGCAAGTTTCCGCCCGAAGATGCGCCGCCGT
GATGGCGTTTCAGGCTGCCGACCTCCTCCAACTCGCGGATGTCGCGGCGTATCGTCTGCG
GGGTAACGTCCAATGCGGCGGCAAGCTCGTCCACCGACATAAACTGATGCCGGCGGACAA
GGCTTAAAATCTCTCCGTGCCTTTGGATTTTCGGCTTCATCGTTTTCTGAAAATCAGATA
CGGCAAAGGCGATAAGCTTCAAGCCCTGAATGAGTAGATCAGCCCATTGAGGGCTTGGCG
TTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 378>:

GNMER80TR gnm_378

AAATCCCGTTTATTCCCACAAAACAGAAAATCAAAAACAGCAACCTGAAATCCCGTCTTT
CCCGCGCAGGCGGTAATCTGAACACGTCCGTAGTGAAACCTATATCCCGTCATTCGCACG
AAAGTGGGAATCCAGGATGCAGGGAAAACCGTTTTATCCGATAAGTTTCCGCACCGAAAG
GTCTAGATTCCCGCTTTCGCGGGAATGACGGCGGAGGGTTTTTAGTTTTCTCGATAAATG
CACATCATCCAAAGTCCCGTTATTCCCACAAAAACAGAAAATCAAAAACAACAATCTGAA
ATTCCGTCCTTCCCGCCTGTGCGGGAATCCGGCTTGTTCGGTTTCGGTTCTTTTTCTCGT
TTCGGGTGATTTCTAAACCGTCATTCCCGCGCAGGCGGGAATCTAGGTAnGCATACGGCT
TTGTTCCGCAACCATTTGGGCCCCACGCCCGAAAAACTCGCCACCCTGCGCGAGCAGCTC
GGTCTGTTGGGGCTTCAACTTGGCGGCGGCGACAACCCGTCGCCGAnnAGATATGCCGCG
CTTGTCGAACATTCAAAGGCAGACTGATGCCGAATTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 379>:

GNMER81TR gnm_379

CGCCCTTTGAATTTGCCCCCATAATGCAGCCTTGCCCAAGACCAATGCCGCATTCTGGTT
CAGATTCACATTGCCGTTAATCTGTGTCGCTCCAAAGCTGTTTAAAGCCTTATCGGATAA
GTTGCCTGTGTTGCAGGTAACGTAACCGGTATAGTCCGAGCGCACGCAAACCTCATCGCC
GTTTTTGTAACCCAAATTTACTTTGGCGTTGTCTGTTGCGGTGATGTTGGCGGTGATGTC
GGATACATTTCTGCCGGAAGAGAATGATGCGGATTGATTAACCGCAATTTCTGTGGCTTT
GAATGTGCGGTTTATCCAGTCGTCTTCAAATACGACTTCATTGTTTTTGGAGAAATGTGC
GTCTTTTCGGGCTGAAGATTTGTTCACAAAATCTCTTGCGTGTGGTGTTGGACGACCTGA
TAACAAGACATTGCCTTGATCTTTAAGCTTCGGTTTTTCTTGATAAATTCTTGCCGCATT
AAAATTCTAGATTCGCGCTTTCGCGGGAATGACGGCGGAGGGTTTTTTGTTTTCCCGATA
AATGCACATCATCCAAAGTCCCGTTATTCCCACAAAAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 380>:

GNMER87TR gnm_380

CAACAACTTCAGCGCCTGCATTATAGGCAGCATCAACCATTTCAAAAGCTGTTTTTAAAG
AGCCTTCATGATTGATGCCGATTTCACAGATAATCAATGGTTCGTGGTTGTAACCTACTG
AACGATTACCAATTTTAAATTCGTTGTTGTTTTGCATTTAGCTTTCCTTGTGATTAAGAA
TGTTTTCTGCCTGTTGTAAATCAAGCTCAGTATCAATATCGATAGAGTCTTGATGAGACA
TAATATAAAGTTTGGTTGGGGCGATAAAAAAACAATTATTTGCAATTAGTGAAGCAGTAT
CATTAATGTAAATTGCACCATTAGGCCTAAATGCCTGAGGTAATTGTTGGCGAGGCTGCT
CCAAATCGCTTAGATGGCGCATGGGGGCATATTCGCCATTATTGATTTGAAGCAAGGTTT
TTAGTGGATGATGCTCCACAAATACGCACTTGCCTGCCTTGTTGATAATGTTGTCGTGAA
TATCGGAATAATTGACATAGTTGAGCATAATGCCCTGATCGCGGCTGCCGACGGCGATAT
TGTCGAATACTTTGAGCCGCTCGGAAAACATCAGCACATAGCCCATATTGTTGCCCACGG
AAATATTGCCGCTGATTTCGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 381>:

GNMER88TR gnm_381

CACGGATGACGCGCGTACGGATTTCCCGGGTGGCTTCTTCATAGATTAAATTGCCCGCCG
CGCCGGCAGTGGAGTCCAATACATCGACCAAAGGCACGCCTGCCGCAATCAGCGTCGCCG
TCGTCGTGCCCCAGCGGGCAATCGTTCCTTTGCGGACAATGTCTCCGAAAATCGGCATAC
GCAGCAGTATGGCATCCATACGCCGTTGGATTTTAATCGAACGCGCCTTCAATTTAAGGA
AGCCGTATATGGCAAAGCCCAGTGCGATCAGCACCATCCAGCCGTATGAGACGAAAAAGT
CGGACATATCCATCACTGTTTGGGTCAGTGCGGGAAGCTCCGCGCCCATATTGGCGTAAA
CTTCTTTAAAGGCGGGCAGTACGAAAATCATCATCACGAATACCAAACCGATTGGGCATG
CAGAGACAACGGATCCTTTTATTTTCTCATCAAATAGAGAAAAACTTCACGAATATGAGC
CCCTGTGCGTAATGGACTGGTTGGTTGTAATAAGGTTACTGTGCCGGAATTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 382>:

GNMER91TR gnm_382

CACGAAGCCCGCGCGGAACGCGTCTGCCACAAACAGCATACGTTCGGGGCCGGGGTTCGC
CAGTTCGCGGCGGATTTCCGCTTTGTCTTCACTGCGCGGATTGAAGCCGCACAAGCCTGT
TTCCAAGCCGCGCAGGGCTTTTTGGAAACTTTCTTGAATCGTGCGGCCCATCGCCATCAC
TTCGCCCACCGATTTCATCTGCGTGGTCAGGCGGTCGTCTGCGGCAGGGAATTTTTCAAA
CGCGAAACGCGGGATTTTGGTAACCACATAGTCGATGGAAGGCTCGAACGACGCGGGGGT
TTTGCCGCCGGTGATGTCGTTGCGCAACTCGTCCAGCGTAAAGCCGACCGCCAGCTTCGC
CGCCACCTTCGCAATCGGGAAACCCGTTGCTTTGGAAGCCAACGCGGAAGAACGGCTCAC
GCGCGGGTTCATCTCAATCACAACCGGTTCnGATTGCCTGCGCCCCCGCCTTGCCGCTGA
TGAATCGTTTCGGCAGGCATTGATTCCTTTTTCAAATACCGATGCCGTTTGAAAGATGTT
CAGACGGTATCTTCCGAACAGACAGATGAATATGGTTTCCAAACTGGACAAATACTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 383>:

GNMER94TR gnm_383

CACTACGTTCAATTTCGGCATTGCTGGTGCGGTCGTTCATTTCCTTTTCTAAATCTAATT
CGCCTTGTTTTTTTGCCTTTGGTTTGCGCGTTTAAATGGTGCGCTTCATCACCCAGCATCA
CAAGGTTCAATTTGTGCAAATCCGCCAATGTGGTTTGATTTTCCCGCCGGGTGCGAATAT
CGTTATACAGCTTTTGAATGCTGGTAAATTTAATTTCAATGCCGTCTGAATGTGGGCTAA
ATGTCTCCACTTTGCGAATAGGAATTACCGTATCGCCCTGCAAAATCTTCTCGGTAAATA

AAAATTTTGCGTGCGTCGGATCGGTAAAATTAATTTCCGTTTTATCCACGATATTGTTTT
GATTCACAAAAAACAGAAAATGCCGATAACCTTTTTCAAAATAATACAAACGCACCCTGC
TGATGAACGATTTGGACAGCTTGGATATTACCGGGCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 384>:

GNMER95TR gnm_384

AGCGGCACGGTTTGAAGCGGCCAGCCTATGCCGACTGTCGGGTCGTTCCATATTAAAACC
TGTTCGGCTTCAGGCTTGTAATAGTCCGTGCATTTATAGACGAACTCGGCTTCATCGCTC
AGTACATAGAAGCCGTGTGCGAGGCCTTCGGGTACCCACAGTTGGCGTTTGTTTTCTGCG
GACAGAATTTCGCCTACCCATTTGCCGAAAGTGGGGGAGTCTTTACGCATATCGACGGCC
ACGTCGAATACTTCGCCGACAACCACGCGTACGAGTTTGCCTTGTGTGTTTTCAGTTTGA
TAGTGCAGGCCGCGCAATACGCCTTTGCCGGATTTGGAGTGGTTTTCCTGCACGAAGGTG
CGTTCGCAGACTTGGGTTTTAGACCACTCGTCGCGGAAGGTTTCCATAAAAAAGCCGCGC
GCGTCGCCGAAGATCAACGCCGCCATCATCATCGTTTTGCCAGCACCTGTTGCCATATTG
AACAGCAAATGCGTTGGCTTATTTTTTAAATCAGGGAAATCGTCTAGCTTTGAAGTGCGG
TCAAAAATCAAAAAGTTTTCAAGGGCAGATTTnTGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 385>:

GNMER96TR gnm_385

CGGCTTCGACCGCGCCGGTGTGGTCGGGATGTGCGGACAGATCGACTTTGTGTTTTTCGC
CGTTTACTTTGAATGTGATGTAGGCATCGGGCAGGTTGAGTTTTTCGGCAAGGCAGCTGA
GCAGGACTTCGCCGCTGCCGTTATCCAGGACCGCGCCTTTGAGGGACGAGCTGCCGCAGT
TCAAAACCAAGATCAATTTTTGGGACATTTTCTTACTCCGGAAAGTTTCAGACGGCATTG
GAATCGGACACGGATACTAACCGGATTCGTGCCGAATCCGTTTTGCCTTCCTGGGCGGGA
AAGTAGTGGGGCCGTCTGAAAAGGTTGATAnAAGAACAGGCTATTCTAGCAnAAATCTTT
GCAATTGCTTGGCTTAATCGGGCGTTTGCGTGAAAATGGCGGAAGTCACTTGGnGCTCAA
GCAGTTTTACGTCAGGAATGGCGGTATCAATGATGTTCATCTTTTTATCTTTCATCTAAA
GGGCGTCTGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 386>:

gnm_386

AATTCAAGAATCAATAGGAAGGTTAAAAAAGGATAAAACTTCTTTTATAATTTCTCATCG
TCTTTCAATTATTCGTGATGCAACATTAATAATGGTTATTAATGATGGTAAAGTACTTGA
AATGGGTAATCATGATCAGCTGATGAAACAAAATGGATTTTATGCACGTTTAAAACAATC
TTCGGTTCGTTAATAAATTCTAATGACTGTTGCTGAAATTAAAAAACTTGCATTAAATAA
TCAGGTATTTAATGAAGCAAAAGCGCTTTTAGAAAAAGGTAATGTTATTTTTCCGGGTAC
CGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCA
CAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAG
TGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGT
CGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGgAgAgcGgTTTGCGTATTGGGCG
CTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGT
ATCAGCTCACTCAAAAGCGGTAATACGGTTATCCACAGAATCAnGGGATAACGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 387>:

GNMES45TR gnm_387

GCGGTCGCGCCCAAACAGCCCATTTCACCTTCGTCTTTTTCATTTTGTCTTTTCTCCCAA
TAAGCCCATTTTCCATCATCTCGATTTTGCCCAAAAGTAAAAACGGTGGCGGCTGATTGG
GCGCAAACGCCCAATGTACAACTTTAATCGCCCAAAAATTTATGCCAAAAAACGCAACTT
TAAACACGTACATTGGGAGGTCGCGCCCAATCAGCCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 388>:

GNMES47TR gnm_388

CGCAAAAAGCTAGCGCACGGCGCTGTTTCTGCGGGTCGATATCGAGCGGCCGCAGCCTAA
GCTTGACAGGAATATTGGCCTTAAGTGACAGCATCGGCAAATCGTTGACAGCCCATAGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 389>:

GNMES52TR gnm_389

TCCAGCTCGGTAGCAATACGAATTCGAGCTCGGTACCAGGTTACAGGAGAAACAGATTTA
AGAGGTTCTAATATTACAGCCGGTAAAAACTTGGTTGTCGCCACCACCAAAGGCAAGTTG
AATATCGAAGCCGTAAACAACTCATTCAGCAATTATTTTCCTACACAAAAAGCGGCTGAA
CTCAACCAAAAATCCAAAGAATTGGAACAGCAGATTGCGCAGTTGAAAAAAAGCTCGCCT
AAAAGCAAGCTGATTCCAACCCTGCAAGAAGAACGCGACCGTCTCGCTTTCTATATTCAA
GCCATCAACAAGGAAGTTAAAGGTAAAAAACCCAAAGGCAAAGAATACCTGCAAGCCAAG
CTTTCTGCACAAAATAATGACTTGAATTCCGCACAAGGCAATCAAATAACCGGTTCCGAT
ATTACGGCTTCCAAAAAACTGAACCTTCACGCCGCAGGCGTATTGCCAAAGGCAGCAGAT
TCAGAGGCGGCTGCTATTCTGATTGACGGCATAACCGACCAATATGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 390>:

GNMET50TR gnm_390

TGAGCAATTTAATTGCCGCTCGGTACCCTAACATATTGCCGCCAAGCGGTATGGAAGCGG
AAATAATGGTAGGTGGGCTTCAGACGGCATCCGCCCTCCCCGTCATTCCCGCGTAAGCGG
GCATCCAGACCTTGGGATAGCGGCAATATTCAAAGGTTATAAAAGACCCGTCATTCCCGC
GCAGGCGGGAATCCAGACCTTGGGATAGCGGCAATATTCAAAGGTTATCTGAAAATTTAG
AGGTTCTAGATTCCCGCTTTCGCGGGAATGACGAAAAGTTGCGGGAATCCAGAACGTCGG
GCAACGGCAATATTCAAAAGCCGTCTGAAAATTTAAAAGTTCTAGATTCCCGCTTTCGCG
GGAATGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 391>:

GNMET92TF gnm_391

CCGTCAAATAGGACTGCAGTGAAAGTCATTTTGCGCCCTCCTTATTTTTCCAACGCAACG
GTGTGGCTGCCGTCGAGCGTGATGTCTTTGCCGTACACCTGCAAATCGAGCGACTCGCCT
TTGAGCAGAGTGAAGACGACGTTTTCTTTGCCGACGGCGACTTTAATCAGACGGCCGCGG
TAGTTGATGTGGAAGGCGTAGCCTGTCCACGCACTCGGCAGGAACGGTGCGAAGCTGAGT
TTGCCGCCCCAGGTTTTCATTTGGGCGAAACCTTGGACGATGGCGAGCCAAGAGCCGGTC
ATGGAGGGGATGTGCAGGCCGTCCTCGGTGGCGTTGTTGTAATTGGCCAAGTCCAAGCGG
GCGGTGCGCTGGGACATTTCCACGGCTTTTTCGTCCTTGCCCAATTCGGGGGCGAGAATA

GAGTGAATACAAGGCGACAGCGAGCTTTCATGCACGGTCAACGGTTCGTAGAAGTCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 392>:

gnm_392

GCACAACTTAATTATGTTGCCTGAAACATCATATAAAAGATAATAAAAGGTACGCAGCCA
TGAATTACGCAAAAGAAATCAATGCGTTAAATAACAGCCTTTCCGATTTGAAAGGCGACA
TCAACGTTTCATTCGAATTTTTCCCGCCGAAAAACGAACAAATGGAAACCATGCTGTGGG
ATTCCATCCATCGCCTGCAAACCTTGCACCCGAAATTTGTTTCCGTAACTTACGGTGCAA
ACTCAGGCGAGCGCGACCGCACACACGGCATCGTCAAACGCATCAAACAGGAAACCGGCT
TGGAAGCCGCGCCTCACCTGACCGGTATCGACGCTTCTCCCGACGAATTGCGCCAAATTG
CCAAAGATTATTGGGACAGCGGCATCCGCCGCATTGTCGCCCTGCGCGGAGACGAGCCGG
CCGGTTATGAGAAAAAACCGTTTTACGCCGAAGACTTGGTTAAGCTATTACGCTCCGTCG
CCGACTTCGACATCTCTGTAGCAGCATATCCCGAAGTGCATCCCGAAGCGAAATCCGCAC
AAGCCGACCTGAwTAATTTGAAACGCAAAATCGATGCGGGCGCGAACCACGTCATCACCC
AATTCTTCTTCGATGTGGAACGCTACCTGCGCTTCCGCGACCGCTGCGTGATGTTGGGTA
TCGATGTGGAAATCGTCCCCGGTATTTTGCCTGTTACCAACTTCAGGCAGCTCGGTAAAA
TGGCTCAAGTAACCAACGTCAAAATCCAAGCTGGCTGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 393>:

gnm_393

CGGCTGTCTTCATTGGCGTACGGCGCGCTACTGCTCACACCGGTACTACCCGAAAGTTAT
GCAGCAAGCGTAGGACGTGTCTTCAGCACGCACGCGTCTGAACAGTATACAGAGAATCTG
AATATTTACtgCATAACAAATGCCGTCTGAAAAATTGTGAGCTTTTCAGACGGCATTGAG
CCGTAAATCATGGAACGCGTGCGCGCTGAAGCACACACCTTACGCATGGATTTTAGGTTT
CATGCAGGCTACAGCTTGCTTCCATAAATCATTTTTATCAGAGCTCGTAGGTACGGTTAA
GCTTTTAGGGTTAGCCGGTACAATGTGAACTCCATTTTTACCTGAATGAATCGTACCAAA
ATTGGTACTTAATCCTGATTTCCCATCGCTGCCTATAGGATACCCAAAATCAACAACAGG
ATTTCCTCTTGCTCCTTTAGAAATAACTGGATAAGCACCTGAATGTATTCCGTTCAACAA
TTCTTGAGGATTAATGTTTTGATTTAAAGTACTCTTACCTTCAATGTAGTTTCTATGTCC
TGAAATATGTTTCCCTTGAGCTCCATCATGAATTTTAGTCCCAATAGATTTTGCTTTAAA
ATCAACATTGCGGGTTTGAAACATTTCTCCATCTACAGACTGAGATAATCTTGAAGCAGT
GTTATGCCTGTAGGAGTCTGAGAAATCCCCACTAACCGCAGCCTTCCCCGGTTTTGGCGC
CTTTGTCAGGTTTTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 394>:

gnm_394

GACGGCGAGCATAATGTCGCTGTCGTATTCGTTCATCTGGCAGCCGAAGGTGCGGATAAA
TACTTTTTTCATGGTTGTGTCTTTCTCAGGCAGCCGTAATCGCGGGGCTGATTGTTGTTG
GAATGAAAAAATTTCAGACGGCACGACGATGCCGTCTGAAAATCGGTGCGGATTATAGCA
CGATGTGGGTTTTGGAGGCAGGATATTGTTTTAAAATATGAATTTAATCGGTCGGGACGG
CTGTATAATGTTTGGCTTTAATGGGAGATGTGTATGAAACCGGCTGTATGGGCGGCATTG
CTGCTGTGTGCGTGTACCAGCAATTTCGGCGACAGGGAACATCAGTTCCTGCGTTATAGT
GGATTAACAAAAACCAGTACAGCGTTGCCTCGCCTTGCCGTACTATCTGTACTGTCTGCG
GCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCACTATATCAGACGGAAGAGGGAATCGC
ACTGGATTGAGCCGAAATGCCGTCCGAAAACAGCAGACCGATGCCGTCATTCCCGCGCAG
GCGGGAATCCAGACCTTGGGATAACGGCAATATTCAAAGGTTATCTGAAAGTCCGAGATT

CTGGATTCCCACTTTCGTGGGAATGACGGGATGTAGGTTCGTGGGAATGACGTGGTGCAG
GTTTCCGTATGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGAACGTAAAATCTA
AAGAAACCGTGTTGTAACGGCAGACCGATGCCGTCATTCCCGCGCAGGCGGGAATCTAGA
CCATTGGACAGCGGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTGGATTCCCACT
TTCGTGGGAATGACGGGATTTGAGATTGCGGCATTTATCGGAAAAAACAGAAACCGCTCC
GCCGTCATTCCCGCGCAGGCGGGAATCTAGGTTTGTCGGTGCGGAAACTTATCGGGTAAA
ACGGTTTCTTTAGATTTTGCGTTCTAGATTCGCACTTTCGCGGGAATGACGAAGAGTTGC
GGGAATGATGGAAAGCTATGGGAATAACGAAGGGTTAAAGTAATCACGGGATGGTGTTCG
CGGGAATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 395>:

GNMEW92TF gnm_395

GGTTTCGCTTGTTTTAAGTTTCGGGTAACTTCCACTTCGTCATTCCCACGAAAGTGGGAA
TCCAGTTTTTTGAGTTTCAGTCATTTCCGAGAAATTGCCTTAGCATTGAATGTCTAGATT
CCCGCCTACGCGGGAATGACGGATTTTAGGTTGGGGGCATTTATTGGAAAAAGCACAAAG
CTGAAAGTCGGCATTCCCGCGCAAGCGGGAATCCAGTGCGTTGAGTTTCAGCTATTTAGA
ATAAATTTTGGGACTCTAATCGCGTCATTCCCACGAAAGTGGGAATCCAGGACGCAAAAT
CTCAAGAAACCGTTTTACCTGATAAGTTTCTGCACTGACAGACCTATATTCTCGCCTGCG
CGGGAATGACGAATCCATCCATACGGAAACCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 396>:

gnm_396

CCGGGCGAAGTCATCGCCGGCGCGCTCGGCAGAGACCTCAAACAATGCGCCGTTTACGGC
CGCGAAGGCCACACCGGTCCGCGCGATCCGTCGACCATCGGCTTTGCCACCGTCCGCGCA
GGCGACATCGTCGGCGACCACACCGCCCTCTTCGCCACCGACGGCGAGCGCGTGGAAATC
ACCCACAAGGCCAGCAGCCGCATGACCTTTGCCGCCGGTGCCGTCCGCGCCGCAGTTTGG
GTCAACGGCAAAACGGGTTTGTACGATATGCAGGACGTACTCGGGCTGAACAGCCGTTAA
CCCCCATACAAAATGCCGTCTGArAAGATATTGTTCACACGGCATTTTGCCGACAGGCTC
CGTATCGGCATATCAATGTTTCAGCACACAGGACGACGCATAAAGCGTCGCCCTATGTGT
TGCCCTGAGTCGGCACGGGTTACGCCCCTCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 397>:

GNMEW95TR gnm_397

GTCCGATGTCTGTATTGATTCCAGATCAGTCACCATTTTTTGGGAGTCTTCAATGGTTAT
ATCGCCAAATTCTTTTCCATGAGCTTTGAACTGTCCATTTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 398>:

GNMEZ23F gnm_398

TGGTTTTGGGTGGGTCAAACAACTCCTACTTACATGGATCGGCAAAACGACGATCACCAA
CTGCAATCACTTCGTCAATCAGGTAACAGTCAAACTCCACCGCCAACGACAGCGCAAAAG
CCAAACGCGCTTTCATACCTGAAGAATAGCGTTTCACCGGCTCATACAAATATTGCCCCA
GCTCCGAAAATTCTTCCGTAAACGCTTTCACATAATCGATATCGACATTGTAAATCCGGC
AGATGAAACGCAAATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 399>:

GNMEZ79TR gnm_399

TCCCTCTGGCCTGAACCAAGCCCGAAATTATACCTGCAACATCCGACACAAACAAAGGCA
TTTCAATATTTTTATTTCTATGAAATAAAAGCGTGTAAGCAGGCTTACACGCTTTTATTT
GGCTGGGGAGGAAGGATTCGAACCTTCGCATGCTGGAATCAAAATCCAGTGTCTTAACCG
CTTGACGACTCCCCAAAAAGGGCTGGCTGGGGAGGAAGGATTCGAACCTTCGCATGCTGG
AATCAGGATCCACTGTCTTAACCGCTTGACGACTCCCCAACTCGCTTGACTTGGCTGGGG
AGGAAGGATTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 400>:

GNMFC24TR gnm_400

CTCGAGGGAATTGACCGGCAATTCTTCAAGCAATAAACAGGAATACCAATTATTAAAAGA
TAACTTAGTCAGATCGTACAATAAAGCTTTGAAGAAAAATGCGCCTTATTCAATCTTTGC
TATAAAAAATGGCCCAAAATCTCACATTGGAAGACATTTGATGACCTCATTTCTTTCAAT
GAAGGGCCTAACGGAGTTGACTAATGTTGTGGGAAATTGGAGCGATAAGCGTGCTTCTGC
CGTGGCCAGGACAACGTATACTCATCAGATAACAGCAATACCTGATCACTACTTCGCACT
AATTTCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 401>:

GNMFC24TF gnm_401

AATTCCCCGAGGAATTATTCGATAAAGATAAGCTTACATTATGAAGAGCAGCATATTACA
GCCGTATGGGTCTACTTGACAGTAAAATTTGAAGAGCATTGGAAGCCTGTTGATGTAGAG
GTCGAGTTTAGATGCAAGTTCAAGGAGCGAAAGGTGGATGGGTAGGTTATATAGGGATAT
A

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 402>:

GNMFC32TF gnm_402

GCAGTCGACAGTAGnAGATCCCCACCCGTACCGATGCAGAAGGCTATATCGAGAAACTGC
ACATTACCCCCGCCAATGCCCATGAGTGCAAACACCTGTCGCCGTTGTTGGAAGGTCTGC
CCAAAGGTACGACCGTCTATGCCGACAAAGGCTATGACAGTGCGGAAAACCGGCAACATC
TGGAAGAACATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 403>:

GNMFC63TF gnm_403

CGATAAAAACCTGCGCTATCACGGCCTGATGCAGGGCATTTCGCGCGAAAAATCCGACGA
AATCTTCAACTACATGGAAAAATTCGCCGGCTACGGTTTCAACAAATCCCACGCCGCCGC
CTACGCCCTGATTTCCTACCAGACCGCATGGCTTAAAGCGCACTACCCCGCCGAATTTAT
GGCGGCGACCATGTCGTCCGAATTGGACAACACCGACCAGCTCAAGCATTTCTACGACGA
CTGCCGCGCCAACGGCATTGAGTTCCTGCCGCCCGACATCAACGAATCCGACTACCGCTT

CACGCCGTATCCGGACATGAAAATCCGCTACGCGCTCGGCGCGATTAAAAGCACGGGCGA
GCCCGCCGTCGAATCCATCACCGCCGCGCGGCAAAGCGGCGGCAAGTTTACCGGTCTGTT
GGACTTCTGCGAGCGCGTCGGCAAAGAACACATGAACCGCCGCACCCTCGAGGCCCTGAT
ACGCGGCGGCGCGTTCGACAGCATCGAACCCAACCGCGCCATGCTCTTGGCGAACATCGA
CCTCGCTATGGACAACGCCGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 404>:

GNMFD08TR gnm_404

ATTACGTATCGAGGCATTCGAGCTCGGATACCCGGGTTAATATCAGATTTTGGAGCAGTA
AAATTTATTATGTACACTAATCCAAAACAAAATCAAATATTGAAAACTAGATTTATTTTC
GAATAAATAGAAAGCCGTCTTATATATAGTAATAAATTAATAACCCTGTTTTTCCTATTG
CCTTTATTGTGCCATGCAGTTGAGTTTGATGAAACTCAATATAACGACTGTAAAGATAAA
TCTATGTTATGTGCTGTCAGAATTGATTCTCCCAAAGGCAATAACTATAGTGGATTAACA
AAAATCAGGACAAGGCGACGAAGCCGCACACAGTACAAATAGTACGGCAAGGCGAGGCAA
CGACGTACTGGTTTAAATTTAATCCACTATATAAATCTATGTGGTTTGACAATGGCAAGT
TAGTATTTATATCCTTTACTAATCAACAAATGGAAAATCAAAGTCGCCCATCTCTAGCGA
TGTTTATTAGTGATGACAAAATATCCAGTACCAATATTGATGAATTTTTAGCATCTTTCG
ATCCTGATAAATATCGAATATTTCATGATCCAAGATATAAATTTTTACCTAGTATGTCGA
ACTCATTGTAATCCTTATTCTCTTTTTGATATTGATAGCAAATATAAACCTGATGAGAAA
GATAAAATCTTTTTTTCAATCACGACAGATAACACAGATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 405>:

GNMFE17TF gnm_405

GTTATCCAAAGGAGGCTGTCGAAGGCAAGGCATGAAATCGAGCAGTCCGTATTGTTTGAC
TTTGTCGTGGTCAATGACGACTTGGCGCGAGCGGAGGAGGATTTGCGCCATATTGTGAAT
GCCTGCCGTCTGAAAAGGTCGCGGCAACTGGGGTTTATTGCAGATTTGTTGGAAAATTCC
TAGAAAACGGCGAAAATACCCGGTTTCCCAATTTAAATATTTTTGAAAGAAAGCAAATAA
TATGGCACGTATTACCACCGAAGACTGTACCGGAAAAATTTCCAACCATTTTGACCTGAC
ATTGGTAACGGCTCGCGGGGCCGGCAACCTTGAAAACGGCAACACGCCGCTTGTGGACAA
TGTCCGCACTACCAAACCGACCGTTACCGCCTTAAGGGAAATCGCCGCCGGACATATCGG
TACAGAACTGTTGACGCGCAATAAATAAATTCTGCCGGAAACGCACGCCGGAACACTTTG
CCGCCGTGCAGTCCGACGGTTTGAAATGAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 406>:

GNMFE18TF gnm_406

CTTTGGATGAAGATGGTGTAATGCACGCTTTGGTCGGACGGGTCGAAATGCGCGCTTTCG
ACTTGCCCGACCATAAAATTTTCATACAAAACAGGGCTGTTGACGTTGAGGATGCGGTCG
TTTTTACCAATCAAATTCAAGCGCAGCCCGCTTTGCCCGATGGCGGTAACGGGCGGAATG
TCCTGCACTTGGAACACGTCTTTTGCCTCGTCGCTTTTGCCGGGTGTAAAGGCGATGTAC
GAACCCGAAAGCAGCGTACCCAAACCGGTTACGCCGCTTTGGTCGATACGCGGCTTGACA
ACCAAAACTGGGTAACCCTGCGGATAAGGCCGAATACTTCGGCATTGATTTGGGCGGTTA
CTTCAACGCCTTTTTGGTCGTCGCGCAGTTTGATTCGGGTAACGCGTCCGACATCGATGC
TCAATACTTTGATGACCGTATTGTTGACCTCAATGCCTTCCGCGCTGTCCATCAGGAGCG
TAACCACAGGCCCCCTGTTGCGGATTTCCTTAACCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 407>:

GNMFE54TR gnm_407

CTCGGCTACCCTGCAAATTCCAGATTCCCGTCTGCGCGGGAATGACGATTCATAAGTTTC
CCGAAATTCCAACATAACCGAAACCTGACAGTAACCGTAGCAACTGAACCGTCATTCCCA
CCACTTTTCGTCATTCCCGCGAAAGCGGGAATCCAGAATCTCGGACTTTCAGATAATCTT
TGAATATTGCTGTTGTTCTAAGGTCTGGATTCCCGCCTGCGCGGGAATGACGAATCCATC
CGCACGGAAACCTGCACCACGTCATTCCCACGAACCCACATCCCGTCATTCCCGCAAAAG
CGGGAATCTAGGACGCAGGGTTAAGAAAACCTACATCCCGTCATTCCCTCAAAAACAGAA
AACCAAAATCAGAAACCTAAAATCCCGTCATTCCCGCAAAAGCGGGAATCCAGTCCGTTC
AGTTTCGGTCATTTCCGATAAATTCCTGTTGCTTTTCATTTCTAGATTCCCACTTTCGTG
GGAATGACGGCGGAAGGGTTTTGGTTTTTTCCGATAAATTCTTGAGGCATTGAAATTCCA
GATTCCCGCCTGCGCGGGAATGACGATTCATAAGTTTCCCGAAATTCCAACATAAGCGAA
ACCTGACAGTAACCGTAGCAACTGAACCGTCATTCCCACCACTTTTCGTCATTCCCGCGA
AAGCGGGAATCTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 408>:

GNMFF86R gnm_408

GAATGACGATTCATAAGTTTCCCGAAATTCCAACATAACCGAAACCTGACAGTAACCGTA
GCAACTGAACCGTCATTCCCACCACTTTTCGTCATACCCGCGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 409>:

GNMFG09F gnm_409

CCGACTACGATTTACTTATAAAAAATGGACAGACAGTAAATGGTATGCCTGTTGAAATTG
CAATTAAAGAGAAAAAAATAGCTGCTGTTGCACAGACTATTTCAGGTTCTGCAAAAGAAA
CTATCCACTTAGAACCAGGTACTTATGTATCCGCAGCTGGATAGATGATCACGTTCATTG
TTTTGAAAAAATGGCTCTTTATTATGATTATCCAGATGAAATTGGGGTCAAAAAGGGTGT
TACGACAGTGATTGATGCTGGGACAACAGGTGCTGAAAACATTCATGAATTTTATGACTT
AGCGCACAAGCAAAAACAAATGTTTTTGGATTAGTCAATATTTCTAAATGGGGCATCGTT
GCTCAGGACGAACTCGCAGATTTAAGTAAAGTACAAGCGAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 410>:

GNMFG29F gnm_410

AAATCAGAGAAGCTACTGCGAAAGTTGCTGCTGAAAAAGGTGATCAAAATGGATAAGCGT
TCGGTGCTATGATGGATTAAATTCGTTGGAAACTGATTTAGACAGTTCAGTGACACAATT
AAGAGAAATTAAAGCAGGGCTCCATGAGTTGGTAGAAAAAAATACCACGTTGGAAATCGG
AAACCAACGCTTACGAGAGCATCTCCAAGAACTGAATAAGTTAGCAGGAAATACAACTGA
AACTGAAAAACAAGAGCTATCAAAATCTCGTATGAATTTGGAAAAACTTTATGAAGAGGG
CTTCCATGTCTGCAATATTTTATATGGTTCAAGACGTGAAAATGATGAAGAATGTGCCTT
TTGTCTTGATGTTATTTATGGGGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 411>:

GNMFI01F gnm_411

CCTGTCGACCCAGATGGTTATAAAATCGAAGTCATTCGTGAGTGTTAAAAAGTTTCACTT
GTTCACTTACTGAGCTTTTTGTGTTTGAGAGCTGTCCGAGACAAAACTTGTCTCGACTTC
TTCTCAAACACTTTTTTCAAAAAAAGTGCTACAATAGAACGTATGAATTTATTGAGGATG
TGATGTTATTATGACAAAAAAAATTATTGGAATCGCTGGCAATCAACTTTTGCAGGCAGC
TGAAGTGTTTCACGGTAACCAAGTGACGTACACCCCACAAGGTTTTGTCAGCGCTGTTCA
AGCCGCAGGTGGCGTTCCTCTCGTTTTGCCAATTGGCCCCAAAGAATTAGCCGCTACGTA
TATACAACAAATTGATAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 412>:

GNMFI03F gnm_412

CCGGTGAGTTGCTGCTTTTAATATACTCTCATCTTTTATTGTTTCTGCTTCTTGTATTTT
GCTTTCATATTCTTTTTCTAATTCTTTTACTTGATTACTTAAAGTTAAACTCTTTTCATT
GATAATATCTTCGATGGAATTATTTACTGAATCTTTTAATTTATCAGTTTGTCGATAAAG
TCCGTATAATTGTGTAAAAGTAAAAAGGCCATATAACAGTCCTTTTACGGTACAATGTTT
TTAACGACAAAAACATACCCAGGAGGACTTTTACATGACCCAAGTACATTTTACACTGAA
AAGCGAAGAGATTCAAAGCATTATTGAATATTCTGTAAAGGATGACGTTTCTAAAAATAT
TTTAACAACGGTATTTAAATTTTCCAAAAAAACCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 413>:

GNMFI04F gnm_413

CCGGAAAGAAAAAAATATTACTTTAGTTGAGTTAAGTGAGGAGTTAGGTATTCCACGTTC
CACTCTTAATAGGTATGAAAACGAAGATAGCGAACCAAAACAAGAAACTTGGGAAAAATT
AGCTGATTATTATGGTGTTTCTACGGCTTATTTAATGGGGATATCCAACCAAAAGGTTAG
CGAAGAAAAAGCTTTGACGGCCGCAAAGAAAGTTTATCAAGTCTATCTTTCCGACGACGA
TTTAGGAAAAGAAATTCGAAAAGCTCTAATGTATTTTAATAAAAATGATTTAGATAGTGT
CTTAAAACAAGCAATGCAGCAGTATTTTACTATCCCAGCCGTTGAATGGAATACAGAATT
TCAATCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 414>:

GNMFI05F gnm_414

TGCGCCGCTGATTCTAAATCATTTTGTAAATCGTCGTTCAGGGATAATCGCTGCTATTTT
CCAAGTCGTTTTTGCGTTATTTATCTTTTATAATTCTATCGGCACAAACTCGTTGACGGT
TATTCTGATTATGTACTTATTCTCAGGATTTCTAGCAACAGTTGTTAAACGGAAACGGAT
GAGTGAGCAAGTTTTCCCAGCTTTAATGTGGGTAGTGGTCTTTCCTGTTTTCATGGCGGT
TGTCTTAATGATTTATCAAGGGATGAGTTTAACAGATGGTAAAACGTGGACAGCTTTAAT
TTGTGCAAGTGCAGGAACGGTACTTTCATTTTTAGCAACAATGGGCTTGCATCCATATAT
CGAATTATTAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 415>:

GNMFI07F gnm_415

CCGGCCTATCGATTTCCCCACATTTACAGTTGGCAACTGGCGGTGGAAGCGTTATGCCCA

TAGTGGTCTATTTGATTTGGATAAAAAAATCAAGGACTATTCTCCTGAAGAGTTAGCATT
ATTTTTATATGCTCCACAACAAAAACTAGCTAATCCACCCAAAGAGTGGCCTCATACAGC
TTTGTATGAAGGAATCGTCCCGCGTATGCAACGTAGCATATTGCATACAGACGAAGGCAA
ACGTCATCAAAAATACCTTAATCACTTTGTTACCGTAAAAAGATGTCCTGATTGTTTAGG
AAGTAGAGTCAATGAACGTGTTCGTAGCTGCAAAATTAATCAGAAAAGTATTGCTGATGC
TGTTGACATGCCACTCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 416>:

GNMFI08F gnm_416

ATTCCCACCTAACTCGTTAAGCACCGAAGCTTCAATCAAGCAAGGGTGCATTTATTTTGC
TTCCTTAGTCAATCGAGCAAAGGATATCGGTTGTGATCAAGAGAGCATCATTCAATCGTA
TAACTATGGTGGTGGATATTTAGACTATGTTGGAAAAAATGGAAAGAAGTACAGCTTTGC
CTTAGCGGAATCTTTTTCAAAAGAAAAATCAGATGGGGAAAAAGTGACCTATTCGAATCC
AATCGCTATTAAGGAGAATGGTGGTTGGCGTTATAACTATGGAAATATGTTTTATGTAAT
GTTAGTGAAACAATATCTTACTACAACGAAGTTTGATGATAAAACCGTTCAAGGAATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 417>:

GNMFI09F gnm_417

CGGAGTTTTGATGAAGATTGTTATCAAGAGTGTATGATTAGGTTATATTTAGCTTTGAAA
AAGTTTGAAATACGTGAATGATACATTTTTGAAATAACAGACTCCGTCTACCACTCTTTA
TTATTACTGTTCAAAAGATATGTTCAAATACACTTAACTACTTTTGTAAAAAAATATAAA
AAATACTGAAAGATTACTTCATTTTATTAATTTAAATCTATTGAATCATGTAGAGGTGGC
GTTAACCATGTATTTATTTTTATTAGGCATGTTTATAGGATGTTTGCTTGGTATAACGAT
TTTAAATTGTTTAGCCATTGCAAAATATGATGATATGAGTTCTGGAAGAAATTAGCTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 418>:

GNMFI10F gnm_418

CCGAATTTTTCTTTTTACATCCGAAGGTTTACTACTTCATTATTAAGATGTTCCCAAACA
ATTTGCTCTGGCGGTGCCGTTTTATTATAAATACGGTAAACAATACGATCTAATGATTTC
CCAAGAAGTGATTTCCCCGACACCTTTATTTGTACTGTTGCCTGATCGTCTACAACTACG
GCATCAACATAGAAATAGAGCCCTTCCATATAAATAACAGTGTCTGGAACAAATATTTGT
ATATATAAAGGTGTCAAACCAACAAACAGCTCAAACGTTGAATAGGTATAGTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 419>:

GNMFI11F gnm_419

CCTGATTTTAGCTTTATCGAAAAACCATTAATTACGAAAGGAGCAACTCGTGAAGAAATT
ATTCAGGATCAATTGGTTTTAGCTGGGGACCCTGCCAATCAGAATTGGTTGGTACGTGAA
AAGGATTCTGGGGTCTTTCATTATACCCAACAGTATTTAGAAGAAAGTAATCAAAGCCCA
ACACTCATGACGGTTAAAAACAATGAAATGATTGTTAAAATGTTGGAATTGGGCATGGGG
CAATCGTTGCTTTCAAGAAAAGCGATTACTGAAAAAATTCCTTTCCAAACGTTAGGTGAA
AAGTATTGGCGTACCTTTAATTTATTAACACGGGGACATTTAAAATCCTCCTTGCTTCAA
GAAGTAAAACAAGCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 420>:

GNMFI12F gnm_420

CCTACTAGAAGCAATCGCGCAATATCATCGGTATGCAAGCCTGTTGTTGGTTCATCCAGA
ATATAAAAGTTTTTCCCATTAGAATTTTTATGAAGTTCACTCGCTAGCTTCATCCGCTGT
GCTTCCCCACCAGATAAAGTAGTTGCCGGCTGCCCCAATGTCACATAGCCTAAGCCTACA
TCCACAATTGTTTGCAATTTACGATGAATTTTAGGAATATGTTTGAAAAATTCTACGGCA
TCTTCCACCGTCATATCTAAAATATCAGAAATGTTTTTGCCTTTATAATGAACTTCTAAC
GTCTCAGAATTATAACGTTTGCCATGACAAACTTCGCAAGGCACATAGACATCAGGTAAA
AAGATGCATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 421>:

GNMFI13F gnm_421

CCGGGGCTTTCAAATTGGCTAGCTCTGTTTCTTTTTCAGCCAACAGTTGTTCTTGTTTAG
CCAATTCGTCTTTTTGCTTTTCAAGCATCTCAGCTGGAATTCCTGGTTGTTGCTCCAACT
GCGCAAGTGCTTGTTTTCCCGTTTCCAGCGCTTGCCGACCTTGGTTAATGTCCGGCTGAG
CCGAATCACGCAGAGCCGCAACCTGTTCTTCTGGCCGATTTTTCAGTGCCTCTTTTACTT
GATTTAAGGCCTGCTCTCTTTTCTTTTCATAATCAGAGGAATACGTATTTTGATGTTTTA
ATGAACGAAATGAGATTAGCAATTCTGGATACCGTTGACTGTCAAAGGCTTTTTCCGAAA
CCACGCCAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 422>:

GNMFI14F gnm_422

CCGAATTGGAGGGTAAACCTTTTTCAATTTTTGTTAATGCAGGAGAGAAAGTTACTACCG
AAACATTATTAGCCGAAGTTGATTTTGATCAAATTAAACAAGCAGGAAAAGATCCATCTG
TCATAGTTGTTTTTACTAAACCTGAACAAGTTAATGAAGTCATCTTAAATAGTTATACAA
CTATATATGGTGATTCGTGTGGTAAAATTATACTTTGACGTAGAGTTAAGTATGTTATCG
GATTAAATTTAAATGAATAAAAGGTGATTATAGACTGTGAGTTATAGAATTTAAGTAAAT
TATATTAACAAAACACCCTACTATTATATAAATCAGTAGGGTGTTTTCTACTTATCCGAA
CTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 423>:

GNMFI15F gnm_423

CCGTTTTGCAATTTTACTACGTTACTTACCAGTGAAAAAACATTTCCCTTATTTAATTCT
TGGTTTTACTGTAACTGCTTTACTAGGAACAATCTTTACAAACATGCAACTTTTAGGAAC
ATCTGTTGCGAGCGTTGTGAAAGACTTCAGTGGTGTATTTAACGCACTACCAATGTTAGC
AGTCGCTTTAATTGGTTTCGCTTTAGCCGCAATTAGCTACAAAAATGGTCAAATGATTCC
GAGTGGGCCAGCAGCCAAAAAAGAACATGCAGCGAATGATTCAGACGAAGGAGAGATTGA
AGATGACGAAATCTAATTATAAATTGACGAAAGAAGATTTTAAACAAATTAATCGCAGAA
GCTTGTTTACTTTCCAAnTTAAnGGGGGGGTTTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 424>:

GNMFI16F gnm_424

CCAGCCATTGCAGTCGAAGAAGTTGATTTTTTAACGGAAACAATTAAAGAACCGAACGCA
GTAGTAGTTCCGTTTCTTTCAAAAAGAGGCGTATAAAGGGAGGAAGAAGGAATGGAATTT
GTAATCATTTTGCTGAAGTCATTGCTTATTGGTGGTTTACTAGGTTTTGCAGCTGGCGCA
GGCGCTGCTCGGATGTTTCATGCACCACAAACGCAAGGGTTAGGGGCATTTAGAACATTA
GGAGAAATGAACGCGGCACAAGGAGATCCAGCATCACACTTTTCTTTTGGTTTAGGTTTT
TTCTTTAATGCTTGGGCTTCGGCCGTCGGAGCAGGGGCCTTTACACAAGATGTGACCCAC
CGGAnTTGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 425>:

GNMFI17F gnm_425

CTGAAGATTATCATCATGTTAAATATACAGATGAAGCGATTAACGCAGCAGCAAACTTAT
CCAATCGTTACATTCAAGATCGCTTTTTACCAGATAAAGCGATTGACTTGTTAGATGAAT
CTGGTTCAAAAATGAATCTAACTATCCAACTCGTCGATCCAAAAACAATTGATAAAAAAT
TAGCAGAAGCGGAACAACAAAAACAACAAGCTTCCGCAGAAGAAGATTTTGAAAAAGCGG
CTTATTATCGTGATCAAATCAATAAATTACAAGCAATGAAAGAAAAACAAATCAGCGATG
AAGAAACACCAGTCATCACTGAAAAAGATATTGAAGCCATTGTGGAACAAAAAACTGGCA
TTCCTGTCGGTGACTTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 426>:

GNMFI18F gnm_426

CCTGTGAATAATCCAGCCAAATTAATCGCTTTAACTGCCTTAAGTTCTGTGGGAATTAAC
TTACTAGTTGGCGAACAATATTTGTCAATTATTTTACCAGGGGAAACATTTAAATCCTCA
TTTACTCGTTTAGGTATTGATAAAAAATATTTAACTCGTACTTTGGCAGATGCTGGGGCG
GCAGTCAACTCGTTAATTCCTTGGGGAGTTAGTGGTACCTTCATTATGGGAACGTTAAAA
GTTGGTGCACTAGAATACTTACCATATGCCTTTTTCCCATTGCTTTGTCCCATTATCACC
GTCATTTTGGGGATATTCTTAAAAAAACAACAAGGGGAAAACAAAAAAGCACCAGGGACT
A

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 427>:

GNMFI20F gnm_427

CGAGGGACTTTACAATCAGTTGGTCAGGTTGTCGCCAGTGCCAATATGGTCAATGAGAAC
GCAGTTCAACTTGCGATGCTCTTTAAAATTATGCGGATTGTCCTACTCGTAGCAGTTGTC
TATTTATTTGGACGTTTCAAGCAAAGTAAGACGGCAGAATCAGAGGCTGAGTTGGTAGAA
GTCACCAAAAAAAGCAGCGCCCTACCTTGGTATGTAGTTGGCTTTTTCATTGCCTGTGTC
TTTAATAGTTTGATTCATTTCCCCGTCGTGATCAGTGAGACTGCTCATTTCTTTAGTTCT
TGGTTTGAAATTACTGCCTTGGCAGCAATCGGGTTACGACTCGATTTTAAAAAGTTTTTC
CA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 428>:

GNMFI21F gnm_428

CCGGCGCACCAACTTGGAATGGCCGAGAATATGTACAACGCTTAATCGCAGCTGCAGGTA

TCAAACAAGACTATAGGACGTCATTAGCCCAAGCTCAATTAATTAATTGGTGTATGTTCA
ATGGGCAATGGTTAGGACAAGTAAGTCCATTAACAGTTGATGAATTTAAAGTTGTCAGCT
CGCCTAAAACAGCTGCTTATGCGTTTGAATTAAACTTTGAACGTCCAGCTGCAGCACATC
CAGAAAGACAAACCTATGCACAAGCATGGTATGACAAATTCAAAGATTTGAAAGCTTCTA
CTGCAACAGGAAAAGCTGGCATAGAACATTTGGAGACCTTAATGGGCAAATGGCTTGGTA
ATGGGCAATGTTATGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 429>:

GNMFI22F gnm_429

CGAACTGGTTGCCAAAGAACTCTACCAAGACTCGACTGCAGCAGTTAATCGAACTTTTCC
ATATAAAGAGCAACTTTTTACCATTGTTGGCGTGACAACCAATACCAGCGGTGCCATTGG
TCCAGGTAATGATGACTCATTGCTTTATTTTCCCAAAAAGACCTATGAACATTATTTCGG
CAAGCTAAAAGATACATCTACGTTGAAACTAACAGTAGCACCTGGCTATCAACCAGATCA
AGTATTGAAAGAAACAATAAAAACTCTCTCTCAACAAGGAACCATGAAAAACAGTGGGAC
GTATCAAGAATATAATGTTAAAGATACCATCAAAGAAATGGGCTCTTTATTAAATAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 430>:

GNMFI23F gnm_430

CCTGATTACGGTCGTTATTATGATGCCGTTTATGAAACGTTGAAAAATGGTGCACCGCAA
CTAGTAACTAAAGAGCAAGCATTAACTAACATCGAAATTTTAGAAGCAGGTTTTCTTAAC
CCAAGTCCAAGTGTTTATCATTTGAAAGAAAACTAAAGCGTATTTAAATGACTTGAAAAG
CGCCTGCCCTACAGTCCAGACAACTGTGGGGCAGGCGCTTTTATTTATAAAGAATTGTGA
ATTTTAATATAAGAAACGTATATTGTTAGTAAAAATAAAAAAAGGAAAGACATCTTAGTA
GCACTACTTCCCCAAGAATTGCTACTAAAATGTCTTTTGTGATGCTCGCTCAATTGAAGA
GCCTTAAATAGGATAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 431>:

GNMFI24F gnm_431

CCCCTAAGTAATGGTCAATTCGGAAAATATCTTGTTCAGGAAATGCAGCACGAATTTCTT
CATTTAATTCGTAGGCAGATTCATAATCAGAACCAAATGGCTTTTCGATAATTAGACGAT
CAAAGCCTTCTTCCGAAATAATATGTTGTGATTTCAAGTGATTAACAATGGTTCCAAAGA
ATTGAGGGGCCATAGCTAAATAGTAAACATGATTGCCTTCTAAGTGGTATTGTTCATTTA
GGCGATCAGATAATTCTTTTAAGGTATTATAATGTTCCGTATCATTCACATTATGTGATT
GGTAATAGAAATGACTAGAAAATTCAGTTGCCTCTTCGGCCGTGGGATTTAAGTCTTGAA
TG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 432>:

GNMFI25F gnm_432

CCGGTTCTTTCTAAAGGTGAAAATAAGGAAACGCCATCTTCCGTTCGATGACTAGCCAAG
GCATAATTGTTTTTCCCCATGACTTGATCTTCTTTCATGGTCCCGGCACCAGTTAATAAA
GCGACATTGGACAATCCTTTAAAAATGGGCAAATTAATTTCGACACTTGGTATCGCAATG
GCACCAATCACAGGTAAGTTTTTGTTTTCAAATTGGGCTTTCATCACCGCTTCTGTGCTC
AAGGACTCAACTGAATCAAAGTCAAACGTTGTTTCACGAGCCATATTTTTCTTCACATCA

GCTGGTTTCAACTTGCTAACGGCGTACGAGCGGCTATTTTGTTGAACCACCCAACTACGT
ATCTGATTGTTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 433>:

GNMFI26F gnm_433

CCGGCGTAAATAAGAAGAAACCTTTACTTTTTTTAAACAACCAAGTACCTATGCCAAATA
CAGCTAATGAAATAATAATGCCAACATACGGATTCATGCGCGAACCTCTCCTTTCGCTTT
CTTCGTTGCTGCGGGTTCTTTTTCTTTTCGAGCATCTTTCATATGCAATAAAAAGGCGCC
CGTCCAACCAGTTGTTGCTAGTAACGCTAATGTTGCTACTAAAATAACAAAAATAATTTG
AACGCCAAATTGTTGCATAATCCCTAAAGAATTAACTAAGGAAATCCCTGAAGGAACAAA
TAAAAATGTAATAACCGTTGATAAGCTATTACCTAGCCCTTCCACTTGCTCCAATTTAAC
AACTATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 434>:

GNMFI27F gnm_434

AGTTTATCTTTGGTCGATTTTCCTTGATATATATATAATCTTCAGGAAATGCTCCTGTCT
GTTTAAAATTCGGAATTTCAGAAATTATTCTTTTTTGCTAAACTAGTTATAACTGGTTAG
TAAAAAGAAGTATTGGACGAATAGTGCTGAAACAAGTGAATGATCCAAAGTATAAAGAAA
AATGAAACCGATACCACAAGACAAGACTGTTGCTGAAAATGGTAAGTGATCATTCTGCTA
AGTTTAGTGTCTTAATGTTTAGTTAACTAAGAATTGTTGGATTGTACTTTAGAAAGAAGG
GACAATATGAAGCGAAGTAAATGGAAAGAATTGATAGTAACGGGCATCTGCCATATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 435>:

GNMFI28F gnm_435

CCCTGTTAAATCGTCTTCATATTTTTCCATTTCTGTAAGTGCAATAGCTTTAGGATAATC
GAAGCTAGTTAAGTAAAGATGCGCATTCGGTACTTGCTTTAAGTCCTGAATCATCTCATC
CACATCTTTAGTTGCTAAAGCTGAAAATAAAATATGAATCGTGTGTTGTGGAAACTCTTT
GCGCAAGTTTTCAACTAAGCGTTTTACTGCATGATCATTGTGGGCACCATCTAAAACAAT
CAACGGTTCATCACTAAGACGTTCCATTCGAGCTGGCCATTGCGCTTTAGCCAACCCTTG
AGTAATGTCTCGTTCTTTAAATGGCAAATGTTGTAGTTGGCAATACTTGTCAAATAATTG
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 436>:

gnm_436

CGGAACGAATGATGCCTGAAGAGCGTTTATTAGTGATGCGCCGTTTATGTGCGAAAGATA
CTCCAGCCTTTATAGTATCCAGAGGACTAGAAATCCCCGAAGAATTAATTACAGCAGCAA
AAGAAAATGGCGTTTCTGTATTACGTTCACCGATTTCAACTTCCCGTTTACTAGGGGAAC
TATCCAGTTATTTAGATGGCCGTTTAGCTGTTCGGACAAGTGTCCACGGAGTTTTAGTTG
ATGTTTATGGACTTGGTGTTTTGATTCAAGGAGATAGCGGTATTGGTAAAAGTGAAACAG
CTTTAGAGCTTATTAAACGTGGACATCGGCTAATCGCAGACGATCGCrTCGATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 437>:

GNMFI31F gnm_437

TGACCAAGAAACGGTGGTCATTGAAATGGCGAAAGCAACGGAATTGAATTGGTTAAAGCA
GCAGAACGCAATCCCTTGATCACTTCTACTTATGGTACAGGAGAGATGATTCAACATGCG
CTCAATCATGGGGCAAAAAAAATCATTATCGGCATTGGTGGTAGCGTGACAAATGATGGG
GGTGCAGGTATGATTCAGGCACTTGGTGCGCGTTTGTTAGACAAGGAAGGGCAAGAATTG
ACACGTGGCGGTGGTGCATTAGATAAACTGGCGCAGATCGATTTAACACAGTTTGATCAA
CGCATTTTTGCTACCGAAGTTCTAGTAGCAAGTGATGTGAATAACCCACTAACAGGGCCA
ACAGGGGCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 438>:

GNMFI32F gnm_438

CCGCTTGTCAATCTATCACTTTGGTTGTCTTCTTTTAAAGAAGGCAAGATTTCTTCTTTA
TAAAGGGTTTGATAGAATTCGTTTGATTGTTTATCCAAAGAAGCTTCATACTGATTTGTT
GCTTTGCGCCAGACAAAACTGAATTTATTGGCATCCGCTTCGATTTTTGTGCCATCAATA
TATAGCGCTTCATTGTCAATTACCTGATTGGTGATTAATTGACAGCGGAATAAGACAAAG
GCTTCTGCTAAAAGGTGAGCAGTTGTTTCCTGACTTTGGAAGCGATTGATGGTCCGGTAA
CTGACTTGTTCGTGGTTTGCTAGCCAACGCATACGATAGCTGTCATCTAATAGAAATCCA
A

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 439>:

GNMFI33TR gnm_439

AAAGCATTCTCAAAATTCTCTCGCTATACCGCAGACGGTAAACAAGCCGTTGGCGAAATC
AAACGACATTCATACGGCACACCCGCCGAAAATCTCATTATCAAGGGCAATAATCTGATT
GCCCTGCATTCGCTTGCCAAGCAGTTTAAAGGCAAAGTGAAACTGATTTATATTGACCCG
CCATATAACACGGGTAATGACGGTTTTAAATACAACGACAAATTTAATCATTCCACTTGG
CTGACTTTTATGAAAAACCGTCTAGAAATCGCCAAAGAGCTGCTTATGAAAGACGGTTCG
ATTTTTGTGTCAATTGACGACACCGAACAGGCACATTTGAAAATTTCACTGGATGAACTT
TTCGGAAATGAATCATTTCACCTGCACTTTTATTTGGGAAAAAAAGACAGGTGCGTCCGA
TGCCAAACAGATAGCGACTATTACATAGTTTGTCTTATGTTACACAAAGAACTTTAAAAC
AGTTAAATTAGATTTAAACACGTTTTCATATGATACAGAGAGATACAAATTAAGTGATAA
GTTTGAACACGAGAGAGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 440>:

gnm_440

CCGGCAATCCATATGTGATGGGCGCAATTTTAGGTGCTATTATCCCGATTGTTGGTATGA
CACCGTTAAGTTCAATGGTTTTAACTGCCTTGATTGGTTTGACTGGTGTACCAATGGCTG
TCGGTGCGTTGACTTGTTACGGCAGTTCCATTGTCAATGCGGCGCTATTTAAAAAGTTAA
AACTAGGCACAGCTTCAACCCCGTTAGCTGTGGCAATTGAGCCATTAACACAAGTCGATA
TCATCAGTTCCAATCCAATTCCTATTTACGCAACGAATTTATTTTCAGGAATGGTTAGTG
GCATTGTAGTGACCTTCTTTGGCTTAAAAGTACCTGTrACAGGAATGGCAACACCGTGGG
CTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 441>:

GNMFI35F gnm_441

CCGACATGTGGTCCATCACCCGAGGATGTAACGTTGCTGGTTGGACATTCAATGCTTGCG
TGTCTTCTTCAAAGGCTTTGATAAAACGCTCCGCCACTTCCGGCGCAGTAATTTTCAATT
CTTTAGCTGCCTTGATAATTTTATCATCGACATCTGTAAAGTTCGAGACATAATTCACTT
CATACCCACGATATTCAAAATAACGACGAATCGTATCAAAGGCGATCGCACTGCGCGCAT
TACCGATATGGATATAGTTATACACGGTTGGTCCGCAGACATACATCCGAACTTTACGCG
CCTCAATTGGCGTAAATACTTCTTTTTCTCTGGTCAATGTATTATAAATTTTAATCATGC
CCTTTTTCCACCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 442>:

GNMFI36F gnm_442

CTTTAAAAGAATTCTTTTCTAATATTGATGAAATTACAGATTTAATAAAAGAAAAGATGG
ATGAAACTGGTATTAAACTATTGTGGAATACTGCAAATATGTTTTCAAATCCTCGTTATG
TCAACGGCGCACATACTACAAATAATGCAAACGTATACGCTATCGCAGCTGCTCAGGTAA
AAAAAGGTTTAGATGTTTCAAAAAAATTAGGTGGAGAAAATTATGTTTTTTGGGGTGGAC
GTGAAGGATATGAAACATTACTAAATACTGATATGAAGTTTGAACAAGATAATATTGCGC
GTCTATTCAAAATGGCTATATTTTACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 443>:

GNMFI37F gnm_443

CCCGTTTCACTCAATTACAATCTCTACCAACCAAGTAGCGGACCATCTAATTGATTTAGG
GCTGGTTAGTTCCTTTGATATGTGTAATCAGCGGATTTTACCTTTTATTGAATCCGTTAG
TAAAAATGCGGCCCTTAACAGTTTGCTAAATTATCGCGATCCTTTAGGTACGCACTTTCA
ACGAGCAACCGCTGCCGAATGGCTTCAGACACAAGGCGTTCGGACCAATGCCGAAGAAGT
TGCCATTGTATCTGGTGTCCAGAATGGACTGGCCGTGACGTTAGCCGCCGCTTTTTCTCC
AGGTCAGCGGATTGGCGTAGATCGATACACGTATTCAAATTTTATTGAACTCGCACAGCT
TTATCATTTAGAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 444>:

GNMFI38F gnm_444

CCTGAATTAGTTATGATCATTTCTACGCCAGCTATTAAACTTGTGACGACTGTTCCTATT
GAATATGTCATTTTTTTTATTGTTCAGCATCTTTTTTATCTAGTGGTAATTGGGGTGATT
GAGTTTATACATTGTTTGTTTACATTCTTTTTGAAACGAAGAGTGAAACAAATTAATAGT
CTCAAAGTGATAGGTGATAGTTTATTAATGATTTTTGCTACTTTTTATTTTTTTGATTTT
CGTTATGGTTTAGAATTATTTCTAGCAAACCAATTGTGGAGTATCTCCTATATGATTCCT
ATCACTTTTTTTCTAATAGTGGTATGTTTAATGCTTATTAGTATAGGCCTATTAAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 445>:

GNMFI39F gnm_445

CCTTCAATTTTTACTGTTTAGCTTAAGCTGATTTGAATAGAGTATCAATTTCTTCCCACG
GGGAAAAGTCGAAGAGACCAATTTCTCTTCGACTTTCTTTGTATAAAGCAGAAACAACTT
CGATTCCTTTAATCGTTACTGCAGCTGTATAGGTGGACTGAAAGTTGTTGCCATAAGGAA
GCTTCCCCTTCAACTGTCGGTGATCCTGTTCAAGAATATTATTGAGGTATTTCGACTTCC
AATGCTTCACTTTTTGGTATAGAATTCCTTCTTCTTTCAGCTCTTTGATCGCTTTTAATG
AAGGAGCATATTTATCTGTTACAATGGAACGTGGTTGACCGTAGACTCTGATTAGACGCT
TGAAAAAGAGCTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 446>:

GNMFI40F gnm_446

CCAGAAATCATGACAATGTGAAAGTATCGTATGCCTCATTGGAACGCTATTTAGAAGATA
TTCATCGCATGGTGGAAAATGGTTTACTTTCTGAAGAAAAAGAATTTTATGCGCCTGTGC
GCTTACGTGGCGGGAAACAAATGTCTGATCTGCCTAAAACAGGTATTCGCTATATCGAGT
TGCGTAATTTAGACTTAAATCCTTTTTCACGTTTAGGCATTGTGGAAGATACTGTGGATT
TCTTACATTATTTCATGTTGTATTTATTGTGGACAGATGAAAAAGAAGAAGCGGATGAAT
GGGTGAAAACTGGGGATATTTTTAATGAACAAGTGGCTCTTGGTCATCCTCATGAAACGA
nTTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 447>:

GNMFI41F gnm_447

CCTCCTTGGCATGGCAACTACTGGAACTGATGGCAAATACACAGTGACTTTAGAGCCAGG
GAAGGCCTCAGCTAACGAAACAATAACTGTCGTAGCGAAAAATGCAACAGGAAAAGAAAG
TCAGCCAGCTACAGCAACTACACCAGTCGACTTAGCCACACCAACCATTGATTCTATTAC
CGGAAATTCTAGTAAAGGTTACGAAATCACTGGAACGGCGGAGCTAAAAACCACTATTGA
TGTCCGTGACGCAGACGGAACCATCATTGCTGCTACAACTGCTAACGAAACCGGCCAATA
TACGGTGACTCTACCAGCTGGCGTAGTGACACCAGGAGAAACGATTACGATTATTAGCAA
AGATGGCGCAGGTAAnTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 448>:

GNMFI43F gnm_448

CTGCTTAAAAATACTGTTTTAGTGAGTTTAGGTACGAATGGTCCTTTTACAGAGGCACAA
TTTGATGAATTTATGAAAGCGTTAGGTAATCGAAAAGTTTATTGGATTAATGTTCGCGTC
CCAACTAGAAGATGGCAAAATCAAGTGAATAGTTTACTTAGTCAAATGGACAAAAAATAC
GATAACTTAACGGTCATTGACTGGTTTAATTATAGTAACGCCCATGATGATTGGTTTTAT
GATGACCGAGTTCATCCAAATGTGGCAGGTGGCGAGCAATACACACACTTTATCGCGGAG
AAAATTTTACAGTAGCAAGAAACTTCCAGCTCAGATGAAAGGGGCTGGAAGTTTTTTGTT
ATAGGAAAAGCAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 449>:

GNMFI44F gnm_449

CCGTGGAAAAACTTTTGTTAAAGCTAGAGCTAATAGATAAACGAATCGAACGCACATTAT

TTCGACAAAAACATTTTGAGCGGTTTTGGGCTACTCTTAAGCCTTTAGAGCAACAATTGC
TCATTAGGCGATTCAAGTATAAAGAAGAGGTTAATTGCCCTCACAGGCTTATAGAGAGCG
TATTAGATGAGATTGAAGAGATAGAAACAGCTATTTGTTTGATGGAAAATATAGAATTAG
AAGAAAACGAGCTTTCCGACGATGTAGAAGAAAACTTAGAGAGGATGTGTGACTTCTTTG
CTTTATGAACGTATCCGTCCAGAGTTTCATCTTGCACGCTGGATATATTACGAAAAAGCA
CG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 450>:

GNMFI45F gnm_450

CCTGATCCTAAAAACGGCTTTGTTTATAGCTTCCTCATCGTTGAAACAATTCAAAATGGT
GCAGAAATCTCAGCGGGGAAATTAGCACCCAATGAACTAGGTGTCACAGCTGTGGATGAT
TATACATTAAAGGTGACGCTCAAAGAGCCAAAACCGTACTTTACGTCCTTGTTAGCTTTT
CCGACATTTTTCCCGCAAAATCAAAAAGTAGTCGAACAATTTGGTGCGGACTATGGAACT
GCTAGTGATAAAGTCGTCTATAATGGTCCGTTCGTGGTAAAAGATTGGCAGCAAACAAAG
ATGGACTGGCAACTAGCAAAAAATAATCGCTATTGGGATCACCAGAACGTGCGCTCAGAC
ATTATCAATTATACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 451>:

GNMFI46F gnm_451

CCCCCATTTTAGAACGGATCATGAATCAATATCAAGAAATAGCTGCGGCTTTACGCCAAG
CGTTGCCGCAAATTTTTCCGCAAAAGAATCTATCGGAAGAGGAAATTGCCTACATGGTGC
TTCATTTTGCCAATTCTTTAGAACGGAGTCCCAAAATTATGGAAGTTGATATTGCTGGTT
TTTCTCCTAGCGGTTTGGCTTCGACAAGTATGCTGGAAATGCGATTACGGCGCTACTTTC
CTTTTATCAACCAGATTCATTTTTTTCGGATTGCGGATTTAGGTAAGGTGAATGTTGAGG
AAAACTATGACTTAGTGATTTCCACTTCGTTATTACCAGGATACAATGGTAAATATAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 452>:

GNMFI47F gnm_452

CCCGTTGCGCTACTTGCTGATGTTGCTTCCTTAGCGCTACTTGCTACTGTCGGACTACTT
TCAATCGTGATTGTTTCCGCAACTGCGGTCGCGCCAGAAAAGGCGTTAATCACTAAAGAA
CTACACAAGCCAATGGTTGCTAATCGTTGCCACTTAGTTTGCTTCATGTCGTCCCTTCTT
TCTCTGGACCATTCCGACAAGACCAATCAAGACAAGACCAAGAATGCTCAGGTTTGCCTG
ACTCTTGCTTCCTGTACGAGGGAGCTGCGAGCCAGCTGTGGTGGTCTGTGTCGAACCACC
ACTTCGTTGATCTCCTTGCAGAGGACCAGCTGGTTCCTTGGGATCCGCAGCTGGCTCATC
TGTTTTCGGTGGGGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 453>:

GNMFI48F gnm_453

CCTAAGATTTGGCTTATGAGCTTGGGACAGCGCTTAAAAACGTTTGTCTCTTTGCTGATA
AGTCCATTTTTTTATAACGGAGGTGGCTAGAGTGAAAGCCTGTGGCATTATCGTGGAATA
TAATCCCTTTCATAATGGACATCGCTATCATGCCCAACAAGCTCGCCAACAAAGCGGACT
GATAGTAGTGATTGCTATAATGAGTGGAAATTTTTTACAAAGAGGAGAACCAGCCTTACT
AGATAAGTGGGCCAGAGCAGAAGAAGCTTTGCAAAATGGTGTGGATTTAGTCATTGAATT

GCCGACAGCTTGGTCGGTACAGTCTGCGGATTACTTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 454>:

GNMFI49F gnm_454

CCGGAGCGAGTACCCAAAAATCGCGTGGGAACTTTTGCTGAATATATTGCAGTGGATCAA
GCGGCTGTAGCTATGAAGCCGAAAAATTTAACGTTTGAAGAAGCTGCGGCCATTCCGTTA
GTCGGTTTGACAAGTTATCAAGCGCTACATGATATTATGAATGTACAGCCAGGCCAGAAA
GTCCTGATTCAAGCAGGTTCAGGAGGGATTGGAACCATTGCGATTCAATTAGCAAAACTA
GCAGGCGCTTACGTTGCCACCACAACGAGTAGTAAAAATAAAGAATGGGTTCAAGCGTTG
GGAGCAGATGAAGTGATTGACTATCGGACACAAAATTTTGAAGAAGTTTTATCCGACTAT
GATTATGTGTTTGATACAATGGGGGGGACAATCTTAGAAAAAGCTTTCTCAGTGGTTAAA
CCTCAGGGAAAAGTTGTTACATTGTCAGGCATTCCCAACGAACGTTTTGCTAAAGAGTAT
GGCTTGCCGCTTTGGAAACAATGGGCCTTTAAAATAGCTACCCGCAAGATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 455>:

GNMFI51F gnm_455

CGGAATTGTATTTACTGCAGAGACAGTTTAAGGAGGACACGCAATGAGCAAAGGTCCGTT
AGTCACTCGGACAGAGCTTCGCAAACGCAGAGAAGCAGAAGAAAAAGAAGCGGAACGTCG
TCAGCAAGAAGAGCAGAAGCTGGCGGAAAAAGCGTATAAGCGAAAAGAAAAAGAAATTTC
GACGTTTTATCGTAAAGAAAAGAAAAAACAAAAACCGATCAACAAGTCACGAGTAGGAGA
ATACTCGAAGCGTCGAGAACGGAGTACTTGGTTAAACAAGGCAATTATTATTGTAGCGAT
TTTATTAGCCGTTGTGGCATATATCGTTTTGAATTTATAGAAAAGAGGAATCACTATGAA
AATTGGAATTATTGGAGCAATGGATCAAGAGGTCAAAATTCTAAAAGAAAAATTGACAGA
CACGATGTCATGGGAACGAGCAGGCGCTTTATTTGTTTCTAGTTCGTTAGGAAGACATGA
GGTGATTGTAGTTCGTTCAGGAATTGGTAAAGTGGCCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 456>:

GNMFI55F gnm_456

CCGGGGTTGAAGGTGTACATGGAGAAAAACAAGTTGAGAAAAGTGGGCTTAACTGCCCTG
GAATGGCTAAAACAACATCCAGAAATTAAACAACATAAAGAATCAAGTCTCTATGAACAG
TTGTTTGCTAGTCAGCAATGGCAACAAGCACAAACGATCGGAATGATTCGGTCGTTACCG
CTAGAATTATCAACACAGCCAATTTTCGAACGGGCCATGCAAGAGAGCAAGCAAGTGGCG
GTGCCGCGAACATTTAAAGGAGGCAAAATGCACTTTTATCAAGTCTTTCCAGAGACGGTT
TATGATACCAGTGCATTTGGCGTGGAAGAACCTCCGTTAACAGCGGCAGAAATAACAGCT
ACAGCGATTGATTTATTGATTGTGCCAGGGATTGTTTTCAATCGTGCTGGCTATCGAATA
GGCTTCGGCGGTGGTTTTTATGATCGAATTTGGTACATTTTTCGGGGCATTCATGTAGTT
TAGTTTTACGTGACACTCCCATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 457>:

GNMFI56F gnm_457

CCGGAAAAGTCGCTGGCCTTGGCACCCACGAAGAATTACTTACTTCTTCTAAAGAGTATC
AAGAAATCGTTGCGTCACAGGAGGAGGATACCATGCAAACTAAAAAAATTCATTTTGGTG
CCTTCTCACGTTTTAAGCCGTATTTACTACGCTATCCAAAAGAAATTATTGGCGCCTTAA

TCCTAGGAATTCTCAGTGGTTTTTCGACTGTCCTCATGACTTATTATATAGGTAAATCCG
TTGATACAATGGTGGGTAAAGGACAAGTCAATGCTGCGCAACTCATCAAAATTTTAGGTT
TATTAGCAGGGATTTTACTCGTAACCGTTCTAAGTCAATGGCTGATTCAACGTCTCGGTA
ATCGCGTGTCTTATTTATCGACCACACAGCTGAGAAAAGATGCCTTTGCCCATTTAAATC
AATTACCGTTAAGTTATTATGACCAAACGTCACACGGAAATATCGTCAGTCGCTTTACCA
ACGATATTGACAATATTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 458>:

GNMFI57F gnm_458

CGCGGTCGTTTATAAACCATTAGAACCGTTAGACACACCAACGATTCATTTTGAAAAATT
ATATGGACCTGATCAGAACGGGGCATATATTTATCGAATAAACGACTAGTGATTCATTCA
TGGAATGAGGTTTGAATATGGGAAAAGTATTGAATAGAATCGGTCGACTTATTTTATTAG
TTACAATGATCGGCTCGTATACGATGTGGGTCGTAGGAATTGATGCGCCAGTCACAAAAT
ATATGTATGCCAATAGTTCAATTTTATTATTAATAGCAGTAATACTTGTACTGCTATTAA
ATTGTACGATATTAAAATTTATTGACTGGCTGACCGTAGCGTTGGCGCTAGCAACCTGGC
TCTTGTTTCACTTTACGGAATCAATCCGTCATAGCACGATGCAAACAGATACAATGATTC
CTTTAATTATTTTATTGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 459>:

GNMFI58F gnm_459

CCTGCTGTGCCGTTGCGCCAGAAGGAAGCATCAGCTAGAAGTGCGTCAATTTTTTCTTGG
AAAACAGACCATTTTTCCTCAGGAAATTTTTTTTCAAAGCGTGTTTTTGCCGCTTTTGCA
AAATTTTTCAAAACAAGCGAATCTTTTTCTACGTTTTGATGAGCGACATGGGTGTTAAAC
AAGAAAGTAACAAACGGTCCATGAACTTCTTCAGAAAATAATGTTGATAAGCTATCTTAT
TTTTGATTTGCCATAATAAAATCCCCCTTCTAAAAGTAAGTGTAGCACAGGAAATCGAAT
GTTTAAAACAATATGTTCAATAAAAGAAAACGCTTCAACTAATCTCAATAAAGGACTGTT
AATGGTGTTCTAATAAAAGTTTTATAAAAAATATAGCTGAAACTCATGATAAAAAAGGCA
CAAACCACTATACTTACGTTATGCCAATTATCCCGAATTGGTATGTTCATACTTACTCCT
ACCAAGAGTACATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 460>:

gnm_460

ATCTATAATTCCTGAATCTCAAAGATCAATTATTCCAGTTAATCTATTATTGCCATCTAA
CAATAGATGATTACAACTAAAATCATTATGGCATAATCACTTTTTACCCTCAAAAACTGT
TGTTGCATTTAGTCTTTCCATAAAACTATCTATATAATCTTTTTCTATATCAGTTAAATC
ATTATAAATAGTTTCACGCAACAATATATACTCTTCTAATACATTTTGTTTATTATCAAT
AGTACATTCACTAATATCTGTATAATCTAAACCGTGCATTTGTCTTAAAAAACTGGCAAT
ATCTCGTTTTAACAAATTTTGTTCTTCTTCTGACATAGTAGAATAAATTTCTGGTGTTAA
AAAAGTTCCTTTAATTTCTTTATAACCTAGTATAGATAATTCATCACTAATATACGAATA
TTCAATATTAGGAATTTTTACATTAGTTTCTAAATTTGTATTTAAAAAATTATATATTGC
TTTTTCTTTTGCATAACCTTTTTTCTTATTAGTACTAAATTTTGTTTTAAAAATGTATTC
ATTATTAACTAAATATGCCACACTATCATAACCACTACCGATTATTTCAATACTATCTAC
TTTGAAATTATCAAAGTAATGCTCAATTAAATATTTCATTGCCTTAACATTTGTGGCATT
ATCATCATATCTATATTCCATTAAATAACAATCTTCTTTTTTGCCCTCGTGTAATTCATG
TTCTGGCAAATCTTCAATAATTCTAAAACCAGATTTTTGGTATGCCCTTATTGCTCTATG
GATTATTTTTATGAGGGACTAAAATAACTGCATTAGCATTTCTTTCGATTTTCAAAAATT

CAAAAATCAATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 461>:

GNMFI60F gnm_461

CCTGCAAAGGCTCTTACTTCTTTGATGTCTTTAAACTCCAACTTATGCCCTATCACATTT
ATTAAGTTTAGCACCCTTTGGTCAGTTATCCCATCTAAATGATCTAAAAAATTAGAATAA
TTTTCTTTTCCTAAAGCTTCTTGCATGTTTGTTTTGTCTAATACGGATTTTAAATCGAGT
TTAGTTGCACTAACTTTTGGATGATTTAATTTAATACCCCACTGCTTACTTGCGAATTCA
TCCAATAAATCACCAAACATCTCTTCATACAATTTATCTATGTCATCGCTAATTTCAGGA
ATAATTGGTATTTCAGTACAACGGCAACGTCCATGATACGGTGGATGCCAATCATCTTTA
ATCTCTTTTCCATGACGTCCACCACAAATAGAACAAACACGCTCATCTTCTGCCGACCAG
CTTTGTGTTTGCTTAACACCTATATCCTTTAGCGATTTTCTTACACCTTCTACCGCAAAA
TGTGAATATTCCGTTCTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 462>:

GNMFI61F gnm_462

CCGATTAATAATTTTATTCAAAAAGCGCGTCGAGCAACAAAAACCATCGGACTTGGTGGC
AATGGTCAGTTTTTTCGGTTATCAATGATTACCGAACACTTAGGCTATCAGCCTTGGGGA
AATGCTTTGTTGGATGACTATGAGTTAACCATTAAATTAATGCTGAAAGAGTTATCGATT
GCTTATATTGACGAGGCCTTTATGGCTCAAGAAGCACTGAGAGATGTGAAACGTTTTATT
CGTCAACGnGTCGTTGGGTTCAAGGAAATTTAGATTGTCTAGCGTATTTACCCAGGGTGA
TTAAATCAAAGTCATTAACGCTAAGGCAGAAGTGTGGAATCTATTATTTTTTAGCGCAAC
CCTTTATTAATCTCGTAGCGGGGATGCTCGTTTTTGTCTTAACTGGGCTTCAACTGCAAC
ACTTGTATAGGTTAGGCTTTTCGTTATCGCTTGTCATTAGTTTTGTTTTGGCCGTCAGTA
TTTCGTTAGTTTTCGGCATTTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 463>:

GNMFI62F gnm_463

CCCGGTTTGCAAGCTGCGCAATGCTTAACGTTAGAAGAAGTAGCCAAACAAATGGCTGCT
GAAACAATCGATCAATGCCTGTTGCCCATTGAGACAGCAGTAGAACAATTCCCACGAATT
GATTTATCAGATGAATTGTATCAAAAAGTAAAAAATGGCATGCGTTTGCACAAAAAAGAA
TTAGGAATAAAGGCAATGCCAGAATCCTTAGTCGCCTTATTTTACCAAAATCAAGTGGTT
AGTTTATACATGCCACACCCAACGCATGATAAATTATTGAAACCAAGTAAAGTTCTACGG
AACAATTAAATAAAAAAGAAGGAAGTTTTTGCACATGCAAGTTATTCAACTACATCATCC
CTATGAACCCAATCAAATTCCTAATGAAGAAGTCGTGATGGTCCTAGGCTTTTTTGACGG
TGTTCACAAAGGCCACCAAAAAGTAATTGAAACAGGTAAAAAGATTGCGGAGGAAAAAGG
CTTGAAGTTAGCTGTGATGACCTTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 464>:

GNMFI64F gnm_464

CCGAGGGGATTGGCCTGATGGAACGGAAAAAACAGGGGCAGGGACATCCCGCCCGGATAT
ACGTTAAAAATTTTATCTTGGAACCGGAACCCACCGCGCCCGGTTCAGACTGCGGAAAATC
AGCAGTCAAGACCGCTTCCCAGTGCCGCCGTCAAGACTGCTGAAAAACCGCAGTCTGCAC

CACGGGAAACCAGCGGTCAACAGTGCGGCATTTCCGCCCCTAATAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 465>:

GNMFI65F gnm_465

CCGGATCTAATCCTAGTTGTCCAGAAATGTACAACGTATTTCCCGCTAAGACAGAATGTG
AATAAGGTCCTACAGTAGCTGGTGCCTGTGCAGAATTAATCATTTTGTTTGTCATCGTTT
TCCTCCATTCTATGATTCTTTATTTTCAATTAAAGTCCCTGTTTTTCCAGATAATCCTTC
TTTGGCTTTTTCTAATAACGTAATCAATGTTTTTCGACCTGGCTTAGATTCAGCAAACTT
AATCGCTGCTTCAACTTTTGGTAACATTGAACCTGGAGCAAACTGACCTTCTTGCGCATA
TTGTTTCATTTTTTCTGTTGAAACATTCCCTAAGGCTTCTTGATTTTCTTTACCAAAATT
AATACAAACTTTTTCAACTGCTGTTAAAATCACGAGCAGATCAGCATCCACTTGTTCAGC
CAGTCGTTCACTACAAAAATCTTTGTCGATGACTGCATTGACACCTTTTAGTCGGTTCCC
TTCTTGAATGACTGGGTATGCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 466>:

GNMFI66F gnm_466

CCGAAGAACTTTTTTTGAACCCACATTGACAAATTGCTCAATTGCCTGCGTGGCACCGCC
ACGGTTATCCAAGAGAACTTGCCGAATATTCCTATGCTCAGTGGTTCGATCAAGGACAAC
GATCGAATGGCCTCGTTCAGCAAACTTTTCAATTTCTTTTGTTGGAAATGTCCAATCTAA
AATAATTGCCCCATCCACCATTTTTTCAGGAATGATAAGATGTGACTTTTTACCGCTGCA
GACAATCATCTCATAATCAAACAGTGCTAAGCCTTTCTTAATTCCCTCCAACAATTCACC
ATAAAAACTACCGCCATAATCAGCCAAATAGACACCAATAATATTGGTTTGACGACGTTT
TAATGTGCGAGCGGGCATGTTAGGAACATAGTTTAGCTCTTCAGCAATTGCTTGGATGCG
CGTTCGTGTTTCTTCAGTTACCTTTGAACTACCATTCAATGCGTAAGAAACGGTCGAGAT
TGATACGCCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 467>:

GNMFI67F gnm_467

CCCTTGATTTTTAAGAATAGATACAGTAGCATAAGAACAACTAGTTCTTTCACTGGCAAT
CGTCAATGTCATATAGAAAAGAATGCCCTATCTGTATTATCTGAAAAATCAAACAATCAT
AACCAATTAGAAAGGTGGTTATTATGTATAACTTATTAACCAAACAGGAAATTCAGTTAC
TTTCCCTAATTGAATACTTGTATGACAGTAAAGAAAAAGTCCCCATGCAAGTACTCCGAC
GAAAATATGAATTTTCCCATTACAATATCAACAATTTATTGAATCAATTAACTTTGTTAA
TTTCTCGAGTCAATACACATGAAAATGTACATATTCGTATTATTAATAATCAACAGTCCA
TAGAATTAGTCGCGGATGAAAATATCCCGATTGAGTTAATGAAAGAAGCTGTTGTCCGCG
GGTCACTAACCTATATGTTAGCCCAGGATTTACTTTTAATACGCTACACTTCAGCCAAAG
ATTTTTGTGAAGAGCCTTTATTAACTTTTCTATTTTTTAACAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 468>:

GNMFI69F gnm_468

CCAACTAGAAGAAGAAAATCAACTATATCAGCAATCCATTAAAAAGCTAACGGAGCAATT
ATTAATGCAAACCAATGAAGTGGAAGCATTACAAAAACAAGTAGTCGAAAAAGATGTTCA
ACTTAAACATGTTAAAGAAACATTAAGTGATAAAGAAACAACTATCACTTCTTTACAGAA

ACAATTGTCTGAAGAAAAGATGCAACAGAGACAGACCAGTGAAGAGAATTTAGACACAGC
CGTTACGCTTTCTCAAAAAGAAATTGGCGAAGTGTTATTAGAAGCCAAACGTCAAGCAAA
AGATACAATTAGTCAAGCCAACCAACAAGTTGCAACAGTTCATGAAGAAATGGAACAACG
TTTAGCAACTTTTACACGCATGAAGCAAGTGGCAAGATAGTACCAAGCTTATTGTGAACA
AATGCAGACAATCAAGAATGAATCAACAGGAACGTACCAACAGATAGAGCAGTTATTAGC
AG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 469>:

GNMFI71F gnm_469

CCGGTGTTATTCATGTTTGATTATTCGAAAGAACCAGTAAATGATTATTTTCTAATCGAC
ATGAAGTCTTTTTATGCGAGTGTCGAATGTATAGAAAGAAATTTAGATCCATTAACAACA
GAACTTGTTGTTATGAGTCGAGGTGACAATACTGGTTCAGGATTGATATTAGCTTCTTCT
CCTGAAGCAAAAAAGCGGTATGGTATTACAAATGTGAGTAGACCACGTGATTTACCACAA
CCATTTCCTAAAACACTACATGTTGTTCCACCACGTATGAAACTATATATCAAGCGAAAT
ATGCAGGTAAATAATATTTTCAGAAGATATGTGGCTGATGAAGATCTACTGATTTACTCG
ATCGATGAATCAATCTTAAAAGTGACCCGATCACTGAATCTTTTTACGACTGAAGGAACA
CGAAGCCAACGTAGAAAGAAGCTCGCTCAAATGATCCAAGAACGTATTAAAGAAGAGCTA
GGATTGATTGCTGCAGTAGGTGTCGGAGATAATCCCTTGTTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 470>:

GNMFI72F gnm_470

CCGGCTCCAACGTACCAACTGTTTTTGAAATGATTGATGATGCCAAAGTAATTCCTGGTT
TAACCTTAACAGAAACTGTCTCTTTAAACTATGCGATGGAAGAAGAAATGGCTTTAACAC
CCGTCGACTTTTTATTGCGACGGACCAACCACTTATTATTATGCGTGATCGTTTGGACCA
AGTGAAAGCGGGAGTCATTGAAGAAATGGCACAGCATTATCAGTGGACAGCGGAAGAAAG
AGCACGACACATTGAAACATTAGAAAAAGTAATTGAAGAATCAGATTTAAAAAATTTGAA
AGTAGGGTGAAGAAAAAATGGGAACTTCGATGATGACACAATTATTCGGTGAATTTTTCG
GAACGATGATTTTAGTTTTACTAGGGGATGGCGTCTGTACCGCAGTTAACTTGAAGAAAA
GCAAAGCCTTTGCTTCTGGTTGGGTCGTTATTGCTTTAGGTTGGGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 471>:

GNMFI73F gnm_471

CCCGTCTTAAACGGCTCTACACTAGAGAGGTATGTTACAGCATATCTCTCTTTTCAATGC
TATTATAGCACAACGACCATCAAAAGACCATCAATAAAAATGCCCGAGCCTCTTATTTTT
CTAAGGCTCGGGCATTTTTATTTTAGGGGCCAGTCACTAAATTCCACGTGACGGCGGCTT
GGTATTGTTGGCCAGCCATACCTTGGTTGGCTGGCACTTCTAGTTTGATGTTAGCAAACG
TGAAGTCCAACTGATAGACGTCACTGCCTGTGAACTGTTTGTTTGCGACCACCGCTGTTG
CGGTATTGTCGGCGGTTAAAGTCACGGTGCTGGTCTTGCCAAGTGGTGTCCTGGTTTCTG
TTGGTTGGTTGTAATCGGTAAAGCTGGCAGCAGCGGCCGTTCCTAGCAACAAGCGGGTCG
TTGTTGGCAAGCTGTCTGTGGCTGATTTTGGTTGCAATAGCTGGGCCGTTAAACTCCAAT
TGGCTTGGCTAGTATTCAGGCGTAAATTAGGGTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 472>:

GNMFI75F gnm_472

CCAGACACAGAAATTGAACGCAATATGATTGAAACGAGTCAACTTGTCAGCCGTCTAAAA
GAGAAGTAGGGGTGTGCAAGCAAATGAACTTAGAAGGATTAACGACAGAAGCCAGAAATG
AAGCGACTAAAAAGATTGACCAAGTGTCAACATTAGAAATGGTAACTTTAATAAATCAAG
AAGACCAAAAGGTAGCACAAGCAATTGAAAAGGTGCTTCCGCAGATTGCTGCAGCAATTG
ATGCAGCGGCAGAACGATTTAAAAAAGGGGGCCGTTTAATCTATTGTGGTGCAGGAACGT
CTGGACGTTTAGGTGCTTTGGATGCGATTGAATTAACACCCACATATAGTGTGTCGCCAG
AACGCGCATTTAGTATTTTAGCTGGTGGTGAAAAAGCAATGTATCAAGCAATTGAAGGCG
CTGAAGACTCGAAAGAATTAGCTATCGAAGATTTAACGCAACATCAATTGACTGCCCGAG
ATGTCGTAATTGCGATTGCTGCTAGTGGTCGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 473>:

GNMFI77F gnm_473

CGGAAATAATAGGGATTCTCTCTGCTTTATTAATGTTTATTTTTGCTCCTACATTAAGTA
AAATAAGTCCAATAGTTGATCATACTGCGGGTATCACAGCAATCCGTAGCCTTTATTTTT
TTTTATTAATTATTCCTATACTTAGCGCACTAAGAGGGTATTTTCAAGGTCTAAATTATA
GTTTTTCTTTTGGTGTTTCCCAACTACTAGAACAATTAGTTCGAGTAGTTTGTATTTTAG
TAGGAACCTATCTAATTATAGTTCAATTTAATGGTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 474>:

GNMFI78F gnm_474

CCCGGTCAAGTTTACTTAGCAAAAGTTGTCCGCATTGAAAAATTTGGTGCGTTTGTTAAC
CTAATTAAAGGCAAAGATGGCTTGATCCATATTTCTCAATTAGCAAACGAACGTGTGAAC
AACGTTGAAGATGTCGTGAAATTAGGCGACGAAGTCCTTGTCAAAGTAACTGAAATTGAC
AAACAAGGCCGTGTCAACGTGTCAAGAAAAGCGTTATTAAACGAAGAAAACAAAGAAAAA
TAATTTCTTTTTAAACCAACGAAAACCAAGGAAGCTTCCTTTCTTTTCGTTGGTTTTTTC
GTTGAAAACAAGCCCTAAAAAAGAAATGATAAAAAAAGCTAAAGACGATCGCCAACTCTT
TTGTTTATAGTCAATTAGTGGTAAAATTAATACTATCAGTCTGAAGAATATCTGGGGTGT
CTTTGTGAAAAAATTTAATCCAAATAAAAATATAATCATTACCTTAATTTTAGTCATTAT
TTTAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 475>:

GNMFI79F gnm_475

CCTTGTTAAAGTTAAGAATACAGCGTTGACATCATCCATTACCCCATAAAGTAAAGCGAA
TAATGAGATAACCACAGATTGTGTTAACACAACGTTACGAGAAACGCCATATTTATTTTC
GCGATGGAAACCAAATTTTGGTGGCAATAAGCCATCACGAGCAACTTGAATAATTGTTTT
TGATGGTCCAGTAACCCAAGCAGATAATTGTAATAACACACCTAAGAAGACCATGAAACT
AAAGATATTACCAATAATTGTTGGTAAACCTAAAACGTCACAATAAAGCAAAATTGGTTG
TGTAATGTTAGACAATTCCATTTTGCCATTTGGAACAATATTAGCTACATACATTGCATT
AATCACGTTTAATAAAACTCACCCAATTAATGACATGAAAACGCCTTTTGTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 476>:

GNMFI80F gnm_476

CCTGGAAAATTGTGGTGCGATGACTTTTTAAAACAATCGTACTGCCTAATTTTGCTTGTT
GGCGCTGGTTATTTGCCAGTGTTTGTTGCTCGATAGGTAAGTGACTCAAACGTTGCCATT
CCATTTGATGAGGTGTGAAAACAACTTTTTCAGGATAGGTAAGGGAAAAATTGCCTTGGC
TAAACAGGGTAATTGCTGAGCCATCGATAATTAACCATTGTTGTTTTTGATGTTGGGCGA
GTACCATCTTTAATATTTGTTGTGCAGTAGCATCTAAGCCTAAACCTGGACCAATTAAAA
TAACATCCGCTTGCTCTACGACGTTCGTCAGAAGGACTGTTTCTTCAAAGCCCACGACCA
TCGCTTCTGGGCATCTTGCATGTAAAGGCCCGTTATTTTTAACATCAGTAATCACAGTGG
TGAGACCAGCGCCACTATTGATACACGCTTCGGTACTCATGATGATGGCTCCGCATATTG
TCGGTTTCTCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 477>:

GNMFI81F gnm_477

CCAAAATTTTGGTAAACTAAAAGATGGAAGTATTGGGGTAAAAGGTGGTTGGCGAATTTA
TTCAAGCGGGCCGGGAATTTATTTAAATCAATTAATTACAGCTGTTTTAGGGATTCGGCA
AAAGGCCCAAAGTGTAGTTTTTGATCCCATGTTACCAGAAAAATTGTCTGGTTTAACACT
AACTTACCAATTGTTTGATAAACCTGTCACATATAAATTTTATCCAAATCAGTCAGCGAA
AATAGTTATCGATGGTCAAGAGGTTCCGTTTAAGTTTGAAGAAAACCCTTATCGAGAAGG
GGGAATGGTAGTTCAAAAAGACGAGGTGCTTTCATTATTAATTGAAGCAAGTGTTATTGA
TATTTACCATTAGATAGGAGAGTAGTCCATGGTAGGAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 478>:

GNMFI82F gnm_478

CCCGTTCGTTTTTATTTCGATTGCTCATATTAGCAATTTCGGCTCTTGCCCGCAAGAACT
TGTCTTCCATTTCGGAAAGCTCTGCTTTAAGATTTTCAATCTCTGTTGCTTCAACTTCTA
CTTCAGAAACGCCAGCAGCATCAACAGCTTCCATTTCTTCTTGTAATTCTTCTTGCTTCT
CTTCTTTTTTACTCACTTCAGCAACTTCCTTTCTCTTTATGCATCTACTTCTTATCCTAA
CAAGGTTTGCTTAATTACCTAAAAAACGGTAATAGTCACCTAGTTGTGAAGCTAGCTCAT
GTCGAAACGTGTCTACCAAACCGAATATTTTTGAATACGGCATACTGGTTGGTCCTAGCA
GGGCAATTGTTCCTTTGCCATGTCCTGATACTTCATACGTAGCAGTGATCATGCTCATAT
CTTCTAAGAGATTGTTGCCAATTTCTGAGCCGATACGAAAAACAATTGGATTTTCTGTTG
TTGCAGAACCATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 479>:

GNMFI83F gnm_479

CCTGCCCCATTCGTTTACCGACCCCACCGGCAATAATTAAAGCTGTAATCATTTGATACA
AAATCCTTTCTCTAACTAGTCAACCACTAGTTTTATTTCAATTTTGTTTAACTTATATAT
TCATCAACACAGCCAAAACTGCATTCAATCTTTTACATTTTCTCATAACTATCAGTAAGT
TTCAATAATTTATCGTAGACCTTAATCGAACTGTAAATGAGAGTGTAAAATATTTTGTGT
AAATGAAAAAATCCATACAAAAAAGGAAGTCGCTTCTGTAGAATAAAGTTAACGACAACC
AATTCACAGAAAAGAGGACTTCCCTATGAATGATTTTACTACAGAAATTGTGCAAACTCT
AGTCACTAAAGGCGATTTAAATGAATTATTCCGTTCGCACTTAGAAAAAGCGATAAACAC
ACTCCTACGGACTGAATTAACGGCTTTTTTAGATTACGAAAAATATGATCGCACTGGTTC
TAATTCAGGTAATTCGAGAAACGGTTCTTACTATCGATCAATCAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 480>:

GNMFI87F gnm_480

CCGGGAAAAAAATTCTATTCTACAAAATAAAAACGTTAGAAAAGCCATTAGTTATGCAAT
AGACAGAAGTAATTATGCTAAAAACATTTTAGATAATGGTTCTATTTCTGCTGTTGGTGT
TGTTGCTAAAGACGTTGCTTTTGATCCTAGTACAAAAAAAGATTTTGCTAACAAAATGTT
GGTGCATTTTGATACAGAAAAAGCGCAATCCTATTGGAATAAAGCGAAAAAAGAATTAAA
TATTAAAGAACAAGTAACTTTAAACATTTTAACCAATGAAGAAGAAACAACCAAAAAAGC
AGCTGAATACATTCAAGGACAATTAGAAGAAAATCTAAAAGGTTTAAAAATTACGATAAC
ACCAGTTCCTGCAAATGTACAAATAGAGCGAGTTATGAAACATGATTTTACTATTAGTCT
AAGTGGCTGGCAGGCAGATTATCCTGACCCTATGAGTTTTTTAGGTAACTTTGAAAGTTA
CAGTGTGTTGAATTTTGGAGGGTATAGnCATACTAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 481>:

GNMFI88F gnm_481

CCGGTGAAATTTCACCGAAATAAACATATTCTGCTTGATACATGATATTGCCTAATTGAA
AAGCGTCATTTACTTTGTCCTTGTTTTGTACATAAGTGTTGTATGGAATTGCTGTATTCC
AATAAAACTTAGCTAGCCTGTGTTGATCTTGTTTCGAATAATTTAGCAAATGGCTAGCAA
TTTCCGTATTAAACACAAATAATTTATCTTTATTTAAACGGTCTATCTCTATTTCTAAAA
TATATGGATCGTCATTCATTAGCTGCAGCAATTCATAGCCAAGACAACTATCTTCTTCAA
ACATAAAAGTAGCACATCTAAGATCGTAGCCTTTCCACCCGTAAGTATTTAGAATAGAAT
AGGTTTGCTGATTAAAGAGCGTATGGTCTGTACCTGTCTCTCTTCTTAAAAGATCCTTTG
CTTTTTTTACTCCTACTAAACCGTGTTTTCTAATGCTATTGATATTGGACTTATCTGTTA
AATGAATTAACTTATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 482>:

GNMFI89F gnm_482

CCAGCGCTGCTTCTTCGGGATCAGGCGTCGTTAAACCAAACTCTAAATGTGCGCCGTTAG
TTCCTAAAAAAGCTTTGTTAAAACGAAAATGTTGTAGCTGTTCCATACTAGTGGCACCAA
TGATTGCTTTAGTGGAGAGCTTCAAAGTACCACCAAGCATAATAGTGGGAATTTCCATAT
CGCTAAGTTTTGCAGCGTGATGCACGGAATTCGTCACTACATGGATTTGTTTCCCAACTA
AAAAAGGGATCATTTCTAACGTGGTTGAACCAGCATCTAAATAGATCATATCGCCATCTT
GTACACAACTAACGGCTAAAGAAGCAATCTTTTGCTTTTCGTGCGTGTTTTTGATTGATT
TTTCCGTCATGTTTTGTTCAAAGCCTAAATTAAGAATACGCTTAGCGCCGCCGTGAATGC
GTTCTAACAAATTGGCGTCTTCTAATTCTTGTAAATCGCGGCGGATTGTGGATTCTGAAG
CATTGAACAAGCTAGCAAGTTCTTGCGATTTGACGACTGATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 483>:

GNMFI90F gnm_483

CCCGCACGTTCTAAAATTTCAGCAATTTCCTCATTGGTTAAAAGCGGTGCTTCTTTCAGT
TCGTGCTTATCAATCAGCTGGAAATTTCTCTCCGCACGTGGCCGTAGTTGGGCACGAACT
TTTGAAAACTTCACAACGTCGTCTGTAATCGTCCATTCTCCTGTACCTTCCCAAGCCTGC
ACTGCTCGAGGCGCCACGTAATTATCAGCCCAGTATAATAATTCTTCTTTTTCAATTTCA

AAGGTCGAAATATTGTCTAAACGAGGTTGAATAATCGTCATTCGCACGGTTTCAAATTCG
TAAATAATGTCGTACTTATCCACCGCACCAAGCGCATATAACATCAGTTGAGGGTTTAAA
TACGCATCAACAGGAACACCTTTGCCGTATTTCAAGTCGATAATTTCAATCGTCTTATCT
GATAAGACAACCACGTCCGAAGTTCCAAATCCTTCTGGGACCCATTTTGAAAAATCTACT
TTTTGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 484>:

GNMFI91F gnm_484

CCCAAAGTGATTTAACGTTTAATTCAGCGTGGGCGTTTAATCCTTCGACCAATGGTTATG
CGTTAGGTTTAGCAATGATGGACGGTGAGCGCCGTGTAAACTTGTTAAATTTTGCCAAAG
AACAAAAGAAAGATTGGCAGGCTGTCCCAGTACAACTCGAGTATATGTGGAATCATGACG
GCTCAGACAGTGCCTTGCTGAAACGTATGTCGAAAAGCTCTGATGTGAATCAATTAGCTG
TAGATATTTTGGTACATTGGGAACGTGCAGGCACTAAAAATGATCCCAACGAACAAATCA
AACGAAAAACAAGTGCGAATAATTGGTATAAGAGACTGTCTACAGGTTCTATGGGGGCAG
GTTCAGCCAATATTGGTGGTGGCAAAATTGATGTGTTAGAACAAATGTTAGGGCAAACAG
TCAATGGAGGTCAGTGTTATGGGGGGACTTCTTATTATGTTGAAAAGATGGGCTTTCAAT
CTTTAATGAATACAGGGCATATGTTTGCCAGTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 485>:

GNMFI92F gnm_485

CCTGCCCGAGAATGTGGCGGAGGTATTAAAATTGCGCCTTAGTTTGTCTAATTCAAGCAC
GAAAAAATATCTGATGATGGATAATGCACGTTGTTCAGATAATCGCATTCATGGCATTTT
ACAATTTTACGGTGCCAACCGCACAGGACGGTGGGCAGGGCGATTATTACAAGTACAGAA
CTTGCCTAGAAACTATTTAAGTGAAATTGATTTTGCCCGTCAGCTTGTGAAAGCAAAAGA
TGTTGAAGGCATCGAATTAATGTATGAAGATGTGCCAGACACATTGAAACAACTTATCCG
AACAGGTTTAGTTGCCAAAGAAGGGCATCGGTTCATCGTGTCTGACTTTTCAGCCATTGA
GGCCCGAGTGATTGCTTGGTATGCCAAACAAGATTGGGTATTAGAAGTATTCCGCACACA
CGGCAAAATTTACGAAGCAACAGCGGCGCAGATGTTCCATTTAGGCGAAGTGACGGACTA
CGACTGGAAAAGCCACGAAGGTAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 486>:

GNMFI94F gnm_486

AAGAAAATTTATTTATCGCTAGTACGATCAAAGAACGGGATCGAAAAGTAGTTCTAGCCG
AAGCTTTCCAGGTGTTCCAATTAGAACCTGCCTTACTTGGTCGTTCCTTTACTTCTTTTA
CGACTTTTGAAAAAATTACAATGCGCCTAATACAACTTTTGCTTTCAAAAACAAGTACGC
TCGTGATTGATGACATCTTTTCTTCATTAACGATTGGACAACGTCAAGAAATTTTACCTC
AATTACCACTAGCAGTTCAACCAAGAAACAAGCGCTTGCTATTTCTGACAAAAGATCCAC
AAATTCTTGATAGTCCCTATGTGCACCCCCTGTCTCTACATGCGTTATTAAACTCAAGAA
AACGTCTGGCACTGATTGCTACCAGACGTTTTCTTTACGTTCTCAGTAATTTCAACATCA
GGAACTGAAATAATAAACGTGGCGACTTTACCAAGTTCACTCTCAACATTAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 487>:

GNMFI96F gnm_487

CCGCTCATTAATAAGAACAGGTTCGGGTAGTAGTATAGAAGATGCTCCAATGTTCGCTTG
AAATTCTGGTAAGATATCTGCCAGTGAATAGGATAAAGTATCTTTTGTGTCGGTGAATAC
CTTATTTTCGCTATCTAAATGATACATGGCGTGAATAAGTTCATGAGATATCGTGAAATT
TTTTCTTTTTTCGCCCATGTTAGAATTATAAGCTAGCGTAGTCTCGTAATCATCTTTAAT
AATCATACCTGATATAGATCTACGTGCTGTTTTTTCAAATGGAAAGGGCCTTATTTTAAT
TGATTTAGATGTTAATATTTCATCCCAAATATATCTATGCTCATAATTATTAACACTCAT
TCCCAAACATAACATGTGTGCTGAAATAAATTCGTTAATGGTACCGCAAAAGTTAAGGTA
CTCGTCTACTTCTACTGTCATCCTGAAAACCACCTTGTAATTATTCACTTAAATTTTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 488>:

GNMFJ77F gnm_488

CCGGCTTCTTCAGGCCAAATCAGCCTTCTGCGCGAGGGGAAGACGTTTGGAGTTGGTTTC
CAGCTGCGGAGACCACCAGCCAAGCAGCAGTGCGACTTTCGCGGTTATGAACAACCGGAA
ATGGTCAAGAAACGGCCTGTCGTCGTCATAGCGCGAAACAGGCACAACGGCAAACTGGTA
ACGGTCGTACCCTTAAGCAGCACAGAACCTGTCCCTTTGGCGGACTACCACCACAAAATG
AGTGGAAACCCCTTACCGGACAAGCCGCACATCCAATGTTGGGCAAAATGCGACATGACG
GCAACAGTCGGATTGGCACGATTAGACCGATACAAACCCAAAGGGTGCGACCGCTGCATT
CCAATAATCAGTGAAGAGGATTTTCAGGCGATTAAAACAGCCGTTGCCAAGGCATTCAAA
CTGTACTAGAATAAAACCGTTCCCTTAAAGGGGCTTGCAAGACTATTCTGAAATATGGGC
AGCCGCGCACGGGCGACAGGCGATGACAAGCCGTCCGTGCGTTTTATGGGGCGCGGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 489>:

GNMFJ87R gnm_489

TATTGGCTTCATTTAATGCTCCTGAAATCCAAGCGCGTGCTGCTCAAATTGAAGATTTGA
CCAATAAATTCCAAATCAGCAGCACACCGACTGTGATTGTCGGCGGCAAATACCAAGTTG
AATTTAAAGACTGGCAGTCCGGTATGACCACGATTGACCAGTTGGTGGATAAAGTACGCG
AAGAGCAGAAAAAGCCGCAATAAGTTGAGGATTGAATGAGTAAAGGCCATCTGAAAATAG
GATTTCAGACGGCCTTTTGTATTTAGGCTTTATAGAAGAGATGATTGCTTAAAGCCTTAT
GGTTTTAAATCAGAATATATAGCGGATTAACAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 490>:

GNMFK22R gnm_490

CCGAAGATGATGCTGGCTTTGCTTCTTCTATGGCCCGGTGGTGTTTTTACAGGAGGACGG
CTTTGGGTAATTCGCCTTGTACGAGCAAGAGCGGCAGGTAGTCTCCGGGCAGGCGCAGGG
CGACATCCTGCATTTATTTGCGCGAGGAAAACAAGACGAGCGTGCCGATGGCTTCGGTGG
GCGAAATAAGCTTGGGCAGCCATTCGATGACGGCGGCGGTGTGGGCTTCGGGGTCTTTAG
GGCTGGCGTATATAGGGGGGATGTAGAGTTCGCCCTGTTTTTCAAAGTCAAAGGGGCTTT
TAAAGGCGAAGGTAGTGGTTTCAGGCAGCCATTACAACCCGGTTTAGCGCACATACAAGT
TGAAGTTACCCAAAGATTACAGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 491>:

GNMFL05TR gnm_491

TACTAACTCTGCTGTCGTTCTTGCAGTTACACCTGCGACAAACAGTTCAATGAGTTTATT
TGTTTATACCGGCTTAGACGACTTTTTCTCATAAGGGCAACTCTAACTTAATTTGGATTT
CCCTACTTATCTATGAGAGCCCCTTGTTTTTAATTGACTATAATCCGCTATATTGTGAGA
AGCTGGATGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 492>:

GNMFL42TR gnm_492

CAGCTCGGTAATAATTACGAATTCGAGCTCGGTACCAGATTCCCTGTCGGAGATGGAGGA
GTTTGACCGCCTGATTCTGCTGATACGCAAACTGTATCAAATATTGGACGGGCAACATAT
CCTCTCCAGAGTAACGGTTTGCCTTCACCACCAAAACCGGCGCGACCTGATTGCCTTGGA
TAAAGCGGCTGCCGGTTGCGATTCGGCAATGTTGCGCGCCCAACGTTGGCTCATCTACAC
GCAAATTGCGGAACGCCTTGCCGGGTCGGGCGGCGGTTTCACGGTTACGGTAGAAAGCGT
GTCCGCCGCCTGTCCGGAGCTTGAAGGACGCTATCTCGAGCTTGTCCGCCGCGCCGCCGT
CTCTTTCGGTTTCACGCAnAGATGGGAAAATCCGGCAAGCGGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 493>:

gnm_493

CCTTTCATTCGCTGCTGGCGGTTTCTATGGGTTCGGTATTCATGGGCGCACTGACCTACA
TCGGCAACGCACCGAACTTCATGGTCAAGGCCATTGCCGAACAGCGCGGCGTACCGATGC
CGACTTTCTTCGGCTATATGATGTGGTCGGTCGCCTTCCTGACACCCGTCTTCATCGTAC
ATACCCTTATCTTTTTCGTTTTCAAACTGCTGTAAACGCTATGCCGTCTGAACATTCAGA
CGGCATTTTAAATTCCGGCATAATCAAATCAATATCCCCCCTTCCGACAATTTATAGTGG
ATTAACAAAAATCAGGACAAGGCGACCAAGCCGCAGACAGTACAAATAGTACGGAACCGA
TTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGC
CGTACTGGTTTTTGTTAATCCACTATAAAATCTAAAGAAACCTTTTTTCCCGATAAGTTT
CCGTGCCGACAGGTCTAGATTCCCGCCTGCGCGGGAATGACGAAATTTCAAAGTTATGGC
GTTATCGGAAAAACAAAAAATCAAAGCCGGAGAATTTATCCCAAACAACCGGATTTCAAA
AAACCAGATGCCCGGCGGGAATGACGGATCTTAGGCTTCTGTTTTTGTTTCTATAGTGGA
TTAACAAAAATCAGGACAAGGCGACGAAGCCGCAGACAGTACAAATAGTACGGAACCGAT
TCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAATGCGAGGCAACGCC
GTACTGGTTTTTGTTAATCCACTATATTTTTTCAGGAATGACGGTTTGGAAATTGCCCGA
AACCCCAAAAACAGAAACCAGACAAACAGGTTTTCCGCCAAAGCCGGCATTTTCCGACTT
TGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 494>:

GNMFP26TF gnm_494

CCGGGTGGATGGTATGCGCACGGATGTTTCTGAAATAATCGCTTACCGTGCTTGTGTTGT
TTGCACCGGTTGCTTGCGGATAATCGTGGGTAATGCGTTCGGCGGCATAAGCTAAATCCG
CCTGCACATAATACGGGCTGCGGCTGCCGTCTTCACTTGCCGCCTGCGCTGCGGAAGATA
AGACAACAGACGAGAATAGAAGAGAAGAGAAGAGAAGAGAAGACAAGAGAAGAGAACAGA
ACAGAATAGAACAGAAGGTTTTTTGGGGGCTGGATTCATTTTCGACTCCGTATTCGGTTT
TAACTGATTAAAAAGAACACTTTTCAATGATCTTGCAGGAGCGGACTATACCAGGTTTGT
GGCGATGTTTCAACACAATATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 495>:

gnm_495

CAGGAAGGACGCGGCATCGGGCTGATTAACAAAATCCGCGCGTATCATCTGCAAGACCAA
GGTATGGATACGGTTGAAGCCAATTTGGCACTCGGGCTGCCCGTCGATGCCCGCGATTTC
CGTTTGGCGGGGTTGGTGAATCTGATTGCGTGCGGAAGCACCCGTTTCCGATTCGGTGCG
GAGCAAATGGCGGCACTTTATGTACCGTTCTGCGTGTTGAAACATATAGGCAGATAAAAA
AGCCGCCCGTTGAAAAGCAGACGACTTATGTTTTGTGGCACTAATTTGTCCCGATAAGCA
TTAACTATATAATTTATTTATCATTATTGGTGCGGACGGAGAGACTCGAACTCTCACACC
TCTCGGCGCCAGAACCTAAATCTGGTGCGTCTACCAATTTCGCCACGTCCGCATGGGAAT
TGGACGATTATACAGATTTTGTTTTTTTGTGCAAGGTTTTCGGCGGGGCTGTTGATGGCT
TGGGGTTTGGGGCGGTAAAATCTGTTTTTCGTCCGCCTGACATCGGAATCGGGCGGTTTT
TTGTTTTTATTGACGGAATTTGGGTATGCCTGCTGCTTTGATTAAGGATTTTCTGCTGAC
TCAGGGTTTGAAGCTGCCGCTTGACGAGGTTCGGGCGGCGTATCTGACGGCGCAGACGGT
AATGGATATGGGGACGGCTTCGATAGACCGTTCGGTTTTGTGGCGCAGTGATGAGGGTTG
GAAACTTGCCGATTACCTGTCGTGCCACAATGTCCGCGAAGATGCACTGAAACGGCTTTT
CATGGCTTTGGATTCGGTGTTTTCGCGCTCGACAGGCGTGCGGAGTCCGGCGGTCTATGC
CTTGATGCCATCTGAAAACCAGGCTTTCCAACTGATATGCCTGTCCCGACAGGGCGAGGT
TTTGGAAAACCTGTGGGATTTGGATGAAGCGGCAGGCAAGGTTTCGCTGGCTTGCCGTTC
GGCGCAAAGCGGTTGGATGAATGTTGCCTCGGATGTACGCCGTTGGCTGGATTTGGGGGA
GCTTTCGGGAGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 496>:

GNMFP92TR gnm_496

ATCAACAGCGCGCCGTATTTTTCGGTCAATCCGCGCAAGGCTTTGACAAAGGCTTCGGTC
GGGCGGACGAGGTTCATATTGCCGACGAAGGGTTCGACAATCACGCAGGCGATTTCATTG
CCGTTTTGAGCAAAGGCTTCTTCGAGTTGGGCGATATTGTTGTACTCGATTACCAAAGTG
TGTTTGGTAAAGTCGGCAGGCACACCGGTGGAAGACGGGTTGCCAAACGTCAGCAGACCG
CTTGCCGGCTTTCACCAGTATGCTGTCGGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 497>:

gnm_497

CCAACATACAGGCCGCTGTAGAAACATGGCGGCAAATCGGATATTTCAGTCTCCACTATA
AAGAAGCAGGGGGCGGACTGTCAATACTCAACGCCTGAAAACAACCGTAAAACAGCCTGT
TTCCTGATAGTCTATCATGCCGAAAAATCAATTCCGTGTCATTACTTTAGGGGGATTTTT
TCCATATCGCACGATTGCCGTTGCACAAAAACAACAAACACAACGGCAAAGCCCCATACC
GTACCGGCAAGAAAATATGATAAATTATAAACAATGTTCAGCCACCCGACACAGACCCAC
ACCGACCCGCCATGAAATTACAACAATTGAAATACGCCTTAGAAGTTTACCAGCACAACC
TGAACGTTTCCGAAGCGGCCGAAGCCTTGTTTACTTCGCAACCCGGCATCTCCAAACAAA
TCAAATTGCTGGAAGAAGAAATCGGCATTCAGATTTTTATCCGCAGCGGCAAGCGCGTGG
TTTCGGTCTCGCAGCCGGGCAAGGTGGTTTTGGATATTGCGGGACGTATTTTGCGCGATG
TTCAAAACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 498>:

gnm_498

CTTGCCGATTAAGTGGGTATAACGTTCGTGTTCAGGATTGACGGCAACGGCAACGTCGCC
CAGCAGCGTTTCAGGACGGGTGGTCGCCACGATAACGGCTTCGGCGGGATTGTCCGCCAG
CGGATAGCGGATGTGCCACATAGAGCTGTGTTCTCCCCAcgtcwGACGACCTTTTCCGTT
TCAACCAATCCCTGCGCTTGATTATTGGTAATAATTCCTATTTAATTCATTTGTTAGACA
ACTCGTTCCTATCCAATCATGAACACCGCCGCCATCTACCGCCAGTACCAAACCTATGTC
CGCTCCGATAAATCCGGCTGGGCGTTGGACGGCTGTTCCGACAGCGCGCTCATTGCGCAG
GCAAAACAGCCCGGTTTGCATCTGGAAATGTGCATCAACCGCTTCGATTCGGGCATCACC
TTGTCGCGGATGCGCGGCGGCGGAACGGGCGCGTTTCCCACCGAAATCCACAATTTCAGC
CACAACTGCGCCTTGTTCGTCATGGTGTCGGGGCAGAACCGGTTACAAATGGGCGGCAGG
GAATACCGCCCATCTGCCGGCGAAATCTGACTGGTACGCGGCGATTTGGCGGACGTATCC
GAAACCCTGCTGCCCGACAACAGCGGCATGTGCGCGCTGCATTTGGATTTTGTCGCTGGA
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 499>:

GNMFU01F gnm_499

CCGCCATTAACACTGGGTAAGTTAACAAACCAGTTGGGATAGCAATGGTGTTATTACTAT
TTCTTTTTTGCGCTAATTTCTTTGTTTTAAATTGGGTCATTCTTTGTAATTCACCTAGAT
TACTTTGTGTCAGCATTAGATAACCTAACATGGTATGTTCCATCAGATCACTTTGTAAAA
ATAAGTTCACTTTTCCATAATCAAGTCCTAGTGCTAATAAAGTTTTAACAAGTTGCAAGT
TGTTATCTTTGAGCATTGTTGGTTCAAAATCAACAGTAATAGCATGAAGATCAGCAACAA
ATAAAAACAGTTGGTATTGACTTTGGAGTTGTTTTAAACCTTGCATTACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 500>:

GNMFU02F gnm_500

CCCGCGTTAAAACTTCCTTTAAAGTTTCAATTTGTTGTGAACCCCCCTTAAGCTTAAATT
CACTTGCAAGGTTAACCTTTTTAAGATCAACTAAATTAATTTGGTTTAAATTCAAGTTTT
TATTAGAAACTTTAAAGTTTTCTTTATGAGTTACTACTATTTGTTTATCTTTGGTTAATT
GAATATCAATTCAAATACCATCAAAATCAAAAACTTGGGCTGCTTGAAATGCTAATTTGG
TGTTTTCTGGTGCAATAGAACTATAACCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 501>:

GNMFU04F gnm_501

CAGTGAGTTTTTTTGACAAGAAACTCATGGGCTTTTTGTGGATCAGAGCCAATCTGAACA
AGCTGCTATTAGCTTTTGAAATTTATATCAGGATTTAATTATTAACAAACTTTGTATCCC
TGCTTTTGTTGGTTTGAAAAGTGAAAGTGAAAAATTTGCAGGTGCTAAAAACACATGGAC
AATAGAAGCAATTATGCCTGATGGACAAAGTTTACAATGTGCCGGGTACCGAGCTCGAAT
TCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACAC
AACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC
ACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTG
CATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCT
TCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCAC
TCAAAGGCGGTAAAACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGA
GCAAAAGGCCAGCGAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCAT
AGGCTCCGCCCCCTGACGAGCATCACAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 502>:

GNMFU07F gnm_502

GGTATTTGGTCCATTAAGGTGAGAAGTTATTACGTATTATTAACAAAAAGGGTGATGTTT
AAATCAAATTCATCTTTTTGTTTGTTGATCTTGGGAATTATTTTTTCAATATAACCATCA
CCATTAATAATTGTTTGACAGATTTTATTAATGGTTTTTTCACTCCACACTCCGTTAATG
TTAATGTAACTGCGAAACTTACGTGGTTTTAGTTTTAACTGCTGGATATTTCAATATAAC
GGGATAATTTTTAACTGCTTTTTATTTTGTAAATTCTTACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 503>:

GNMFU08F gnm_503

CCAGAAACTTAGTTTTTGGAACCAGATCATATAACGATGGTCATTAGGTGGTTGTTATTG
CAACCGAAACAGATAGTTCCCAAATTAATTTTCTAAACGGTTCTACTAATCAAGGTACAA
GTTCTCTTAGTTGAGGAGGTACCTTGGGTACCACCATCAGACAGGTGCAAAACCGTTATT
CTACTTATCCAAACGGAGTTAAATTTTTAATTTGGAATGATATTGCTCCTGGTTCAGTAA
AGTGAAACCCATATGCACGTTTTCCTGTTGTGGATAGAAAAAACGAACTTGCAAGTCAGG
GTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGCGTGAAATTGTTATCCG
CTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAA
TGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAAC
CTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAAGCGGTTTGCGTATT
GGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGTTCGTTCGGCTGCGGCGA
GCGGTATCAGCTCACTCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 504>:

GNMFU09F gnm_504

TTAAATCGGAAATCATCTAAAGTATAGACAAAAAAGCGATAGTCATCAAACTTATTAACT
GCTAAATTAAGTAAATCAGTTAGTGAATTTTTCAGTTTTTCTAAAGCTTGATTTGTTTGA
CTCATCAAGTAAAACAGTTTTTCATAATTGATTTGATTCTGAGCTAAACTTTGATGGTTT
AAGTTATTAATATTTTTAGTAATTAGATCGCAGTTCTCATTAAGCTCAATAATTAAATCA
TGCACATCTGTTTCATTTTGGAACACTAATTCAATGGCTTTAATTGTTGTTTTTAAAAGC
TCATTTTTCTTTTCATATTGTTGAATTTGATTACGAAAATCATCAATATTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 505>:

GNMFU11F gnm_505

CCAAATTTAATGTACTAATTCTGTTAGATAGATAAGAATTGGCTACTAACTCCACCTCCT
ACTAACAACATTTTAGGGGCAAATTTTTTAATTGCATTTTTAACATGATCAATGTAATGA
TCAATAATAGTAGCTTGAAAATTGGATGCTAATTCACTCCAATCAATTCGGGTTTTATTA
GCACTTATTTGTTTAATCTTGTTTAAACACTGAGATTTTAAACCAGAATAGGAAAACTTA
GTTCACTTAGTAGAAGGTTTAAAGAAATAGTGAGGTTTAACTAATTCTTTATTAAAAAGA
CTATCAATTTTACTACCAGCAGGATAATCAAAGCCCATTGCTCTGCCTATCTTGTCATAA
ACTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 506>:

GNMFU12F gnm_506

AGATAAGAAATACAAAATTCTCATTGAACAAGAGTTAAGTAATCCCAATTTTCTTAGTTA
TGAAAATGACGAATTAAAAGCACAATGTCAAACCAAAGAATTAACTGAATGATTAGTTCA
AAAAAGTAAATCTTTCATTTTTTGGATGAATAATGCTGGTTTTAAAAACTTTAACTTCAT
TGCACTTTATCCTATTGATAAAAATGAATCTAAATTAAAAGTAAAAGCTGTAACTGTTTC
TCAATATGATAAGCAGTTTGAAACAAAGGTATTTGCAACAGAATTTATCCCTATCCACAA
GATTAACCAACAGATCGATGATGTCAAGATTATTGGGCAAATCTTTGAATTAAAAACCCA
TGAAAGTTTAACTGGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 507>:

GNMFU14F gnm_507

CCCAGGATTGGCAATTTTTATGCCTGGTTGCATCTTACTTTCCTCGGGTTCTTTTAGAAG
TTATATCCCAACTCCTAGTTTAAGAAATACTGTTGGTAATCACAACAGTTATGTTAATAA
TACTGTCCCTAAAAACAATTTTTATGAAAAGTTTTATGATCTAACTTTTGCTTTAAATTT
CACTAATCAGAAAACTCAAGAGTTTGGTACTGGTTGGTTAATTGACTGAAAAGGAGATGA
AACTAAAGATCTTAATACATTAACTATGGGTACCGAGCTCGAATTCGTAATCATGGTCAT
AGCTGTTTCCTGCGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAA
GCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGC
GCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCC
AACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACT
CGCTGCGCTCGGTCGTTCGGCTGCGGCGAACGGTATCAGCTCACTCAAAGGCGGTAATAC
GGTTATCCACAGAATCAGGGGATAACGCAGGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 508>:

GNMFU15F gnm_508

ATCCTTATAGCTATTTCGACGAGATCCAGCTATCACGGTCCACTAATTGGAATTTCACCC
CTAATCACAAGTCATCCGCTATCGTTTCAACGAGAGTCGGTTCGGTCCTCCAGTTAATGT
TACTCAACCTTCAACCTGCTCATGACTAGCTCAACCCGTTTCGGGTCTATGATAACAAAC
AAACGCTCTCTTAAAACTCGCTTTCGCTACAGCTCCCCATCTCCTGGTTAACTAACGCTT
GCTATCATAACTCGCCGGCTCATACTTCAAAACGCACGCCATCACACATTAATGTGCTCT
GACACGTTGTAGGCATATGGTTTCAGAATCTATTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 509>:

GNMFU16F gnm_509

CCGTGAGTTGTTCACGTTGTTTTAAAAGTGATTCATTAGCTTTACTGAAAGCAGTTTGCT
CAAGGTTTAACTGGTGTTGTTCACGTTCCAGTTCTAGCTGAGCTTGTACTGTGTCTTGCT
TTTGGTTTTGCAGCGCTTGAAACCTGTTATCAAGTTCTAGTTTGACCTGATTATTTTTTT
CAGCTAACTTGTCAAGTTCACGTTGCTTAGCTTCAATTTGTCTAAATTCTTGGTCCTTTT
GGAGTTCAAAAACCTGATAGTCTTTTTGTAGATCACTAAAAGCAATCTTTAGTTCTGTTT
CCTTTTGGGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 510>:

GNMFU19F gnm_510

TTTGCAAAACAACCTGAATCAACAACTGATAGCTACAGCTTTGACAGTGATTTACCTCAA
CCAACCCTTGACCAACCTTCTTTAGATGATCATGTTCAGTACAACTTTGATCACCATGAA
GAGCTCAAACCAGTTGCTGAAGAACAAAATAATTATCAAGTTGGATTTGATCAAGTTCAA
GCTAATCTTGATAATAATGAGGAAATACAACCAACTGCTGAAAAAAAAGTAACTACTGAT
TTTGAAAGTAAACAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 511>:

GNMFU23F gnm_511

CCTGACAAACTAAATCAAAGTGAAAGATATTTTTCGCTTAGCTTCAGGGCAAATTTTTTA
AAAGTTAATTTTGATAAATGTGTTTTTGCAAGTACAAAAACACATCATAATCTTGCTTTA
GTTCACAAAAAAATTTTCGAATTATTCGTTGAAGATGAAAGATAAATTTAGTTTTCAAAA
AAACTATGATTTCAACTTAGTTAGTGATGGGCTTTATGAAATTTGAAATAATGCTGGTTT
TTTTAAACCTAAAGATAAAAACAATTCTTTTACAGCAATTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 512>:

GNMFU25F gnm_512

CAGGGTGGTTTTTCTTTTCACCAGTGAGACGGGCAACAGCTGATTGCCCTTCACCGCCTG
GCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTG
TTTGATGGTGGTTAACGGCGGGATATAACATGAGCTGTCTTCGGTATCGTCGTATCCCAC
TACCGAGATATCCGCACCAACGCGCACCCGGACTCGGTAATGGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 513>:

GNMFU27F gnm_513

ACCTGTTTCAAGTGAAAGTTGGTAGTTGTGTTCAACTGAACTAATTGCATTTCTTCTAAC
CTGAGCATCAACTTGTCTTTTTCTTTGGCGGGTTTTGGCTTGCTCACGGTTTTGTTCAAA
GGTGAGAGTAACAGAAGGTAATCCCCCATTAACCAATCAGGACTTGTCAATGTTGTCAAG
TTCACTAGCAGTTTTATCATTAGTGTTTTTAGTAATGTTTACAGAAGAAAAGCCCTGAAT
GAATAAACTGTTAGCATAACTTTTTTCAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 514>:

GNMFU30F gnm_514

CCAGCCACTAGGTAAGTTAACCAATAGTGGTACATACTGGGCACGGGGCAAACATCGTGT
TAGGATCAAATAGTTCAGTTACTGGTAAGGTGAATAACCTATTAAAGTCAATCTGGTTAC
CAGGTTTAAAGCTAATTTTTTCAGTATCACTATCACTAGTTGCTCCCTGGCCATTGATAA
GGTTAACAAGGGGAGTAGATACTACGCCAGTTAGTTTACCATCCATCTTGGTAAATGTAC
TATCACCTATCCCTATTTCACTCTTATTGTTTTGTTTACTATCAAAGAACTTTTTAAGGG
GTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCG

CTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAA
TGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAAC
CTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATT
GGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGA
GCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCA
GGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG
C

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 515>:

GNMFU31F gnm_515

CCGATCTGAAGGCTTGGGGATTTTGTAGTGGAGTTGAAAACTATGCGAGACACTTAGAGT
TGAGGATGGCTAACTCAACCCCTTACAGTATCTTTGATTATTTTAAGGGGGATTGGTTAC
TGGTTATTGATGAATCACACCAAACTTTACCGCAACTTAATGGGATGTATAACACTGATC
TTTCAAGAAAGCAAAGCTTAATTGATTATGGTTTTCGACTCCCATCTGCACTTGATAACA
GACCGCTCTCATTTGCTGAATTACAACAAAAAATGCAAAAAGTTATTTATGTTTCAGCAA
CTCCAAGAGATAAAGAGATTAGTTTAAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 516>:

GNMFU33F gnm_516

GCGAAGATGATCTTAAGGGCTTAGATTCCAATCAAACTCAAGCAGGAAATGTTCCAGAAG
TTGAGACCGTTTTTGTTTACGAAGATGATCTTAAAGGCTTAGATTCTATTATTAAAGACG
ACCAACAACATGATGAAATTGCTAAACATGTTGAACATTTAAGTCAAGATTATTCTAAAG
AGATAAAAGATAGTGCTAAAGCAGATTTATCTAATATTTCTGATGATATTGATTCAGTTT
GAAAAGAATTCGGTTCTTTTACTGATGAGACACAAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 517>:

GNMFU37F gnm_517

GACTCTAGAGGATCCCCGTTATTAGTCACTATCCCCTTATGAAAAGACTATTTGGAGGTT
AAAATTCTAAGTACCATGGAGTTGAAAACCCCTAACTTTAAGCTAATTGATGAAAAGATT
GCTGAATTTAATAAGAGTAATGAAAACCTGATTGTAAAACTACTTCAAAAAGAAAAGGAA
TTTGCCACAAACCAAGTTACTGTTCAGTTTGATACTCAGTCAAAAAAGTCAGAAGAAGTG
AAAAAACCTAGTAAAAAAATACTGAAAAGTTATCACTGGGTACCGAGCTCGAATTCGTAA
TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA
CGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTA
ATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAA
TGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCG
CTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAACGGTATCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 518>:

GNMFU39F gnm_518

AAGTTTATTTCTTTTTCTTTTGCCTCTATTATATTTCTGTGAATGATGTGGTTTTATTTT
GTTATTGGAAATAATAACGTTATTCATTTTTTTCAAAATTTTATTCAATTCACTTTTTATT
AATTAATATTTTCATTTTTGATTAAGTATTAATTTCTGGGTTATCAAGGGTTATGATATT

TATTTCTATTTTTTTATTTTCTTTAATATCTATTATTTATTATAAGAACTAAAATGTCTA
TAATTTTGTTCATAAAAAGCTTATAATTAAGCATAAATGCTTAATTATAGTAATAATTAA
TACTCTCTAAAATAGATACTATTATATATAACAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 519>:

GNMFU40F gnm_519

CCTGCAACTAATTTAATTGCTTGGAGACTGAATGCAATCCAAAGTGGCAATATTAAACCT
TCAACTACTTTTAAGTTGGAATTTGTTAATTTTAAACACCAACAGAAGTTTGTATTAAAT
TGGTTTAAAAATGAAAGTGAATCACTGCGTGATTTCCAATCACAGTTTGAGAGAATCAAT
AAGTTAGTGGAAAGGGAGTTTGTTAAGTAACAATGTTAAGTTTAGCACAATTAGAAAGTT
GGTTTTTTATCGCTCCAGCACTGCTTTTAGCAGTATTGAGTGGTTATCTCGCTGAACGCG
TTGGGATCATTAATATTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 520>:

GNMFU43F gnm_520

TTTACTGTGGTTTGGATTAACTTATCCTCATTGAATTTCACTGGTAGTGCTGCAGTTCTG
TGATCCTGTCAAACGATGGCATTATAAACAGGCAAACCATTTTCTTTATTTCATAAAACT
ATTGTTTCTCTTTGATTGGTAATACCAACTGCAATCACTTCATGAGATTTGATTTGTGCT
TTATTTTTAGCACTTTGCATGGTAGCTAGTTGGGCTGATCAAATTTCTAGTGGATCTTGT
TCAACTCAACCACTATTAGGAAAAAAAGTGTTAAATTCGTTTTGTGCTATTGCTATTTGG
TTAAGATTGTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 521>:

GNMFU45R gnm_521

GTTGATGGCGAGATAACGTTTGTCGTAATCTGGACACGTAAAATCTAAAGAACCGTTTTC
GAGGGCGATGTAGCGGTTGTCGGCGGCAACCAAAATATTGCCGGGGTGCATATCCGCGTG
GAAAAAGCCGTCGCGGAAGACTTGCGTGAAGAAGATTTCCACGCCGTAATCGGCGAGTTT
GTGCAAATCGATGCCGTCTGCTTTGAGTTTGGCGATGTCGGAAACCGGCGTGCCGTCCAT
CCATTCGATGGTCAGCACGTCGCTGGTGCAGTAGTCGTAAAACACCTTCGGCACAATCAG
CATATCGCTGTTTTGGAAATTGCGTCCGAGCTGGCTTGGCATTGCCGGCTCGCGCATCAA
GTCCAACTCGTCGTGCAGATATTTGTCGAACTCCGCAACCACTTCGCGCGGCTTCAGACG
CTTGCCGTCGGCAAACAGACGCTCGACCCAGCCTGCACCAAAGCGCATCAGCGACAAATC
CTGTTCGATCACGGGCAAAAGGTTGGGGCGCAAAACTTTAACCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 522>:

GNMFU45F gnm_522

TAGAGGATCCCCTGATCCACTGTTAATTGATCAAATGCATTTAAGCCAATAAGCTAAGGG
GCAATAACTTTATTAACGTTATCAACGGCTTCGTTAACGCCTTTACCAAAATAATTTTTT
GGATCATTATCACGTAATTCAATTGCTTCTTTCTCACCTGTAGAAGCACCTGATGGAACC
ATCGCTTCACCTACATGACCAGATGCCAATTTAACAACACAAGCTACTGTTGGAACACCC
CGAGAATCAAAAACTTGATAAGCAAAAATATCGGTTATTTTTGAATTGATGTTTAGATTT
GAACTTCCCGGGTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGCGTGAA
ATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCT

GGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCC
AGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAAGCG
GTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTC
GGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAG
GGGATAACGCAGGAAAGAACATGTGAGCAAAAAGGCAGCAAAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 523>:

gnm_523

CCCGTTAAAAGCCTTTGATTATTCCAAAGCCTTTTGAATAAGGCGTGGCTTCACGTAAAT
TAGGTCAAAATTTTACGGTTAATTTAAGCGTCATTAAAAGAATTTTTGCTTTTGTTAAAA
ATTTAAATCCACAAGCAATTGTTGAAATAGGTGTTGGTAAAGGAGCGTTAACAAATTATT
TGTTAAAACTCAAAATACCTTACAAGGGGATAGAAATTGATAAACGCTTAATTGAATATC
TTCTAGTTGAAAAGATATTAACTGAAGACCAACTAGTTAAAGGCGATATTCTCAAAAAGG
ACTTTAATAGTTTTTTTGAAAATTTAAGTCCATTGGGTACCGAGCTCGAATTCGTAATCA
TGGTCATAGCTGTTTCCTGCGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGA
GCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATT
GCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGA
ATCGGCCAACGCGCGGGGAGAAGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTC
ACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCG
GTAATACGGTTATCCACAGAATCAGGGGATAACGCAAGAAAGAACATGTGAGCAAAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 524>:

GNMFU50F gnm_524

TGGCTTTTGCAATGCAAACATCCAAAACCACACATAACCCTTTGTTAACCAATCAATAGT
ATCAGATAAAAATCCAAAAATAAAACCCCAAATAGGACCAAAGATCCATCCGAACAATGC
AAAGGGAATCCTTAGAAAACTAATGCTTAATACATTAGTAACACTAATTGAAAAGATAGA
AAAGATAAAGGTTAGTGCTAATAAAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 525>:

GNMFU51F gnm_525

CTAGAGGAGTCCCAAGTTTGAATCGTCATTTAACAAGAAATGAACTTGAGAAAGCTTAAA
TAAAATTCGCTCTTTGATTAAACAAAAAATAAGCTCAAAAGAGATTTTTACTGATTTTGA
AGGGAGTCAAAAACTAAATGCAATTGCTTATTTTGAAGAGGAATATTCTCAACATGAAAT
ATTAAGAGTGATCCGCTTTGGTGATTATAGTGTTGAGTTGTGTGGTGGCACTCATGTAGC
TAACACTGCTTCAATTGAAGATTGTTTTATTACTGATTTCTATTCTTTAGGAGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 526>:

GNMFU53F gnm_526

GGAGCATTTAAAAACCAATAAACACCAACTCCAGCAGCACTAAATGCAGTAATAGCAGCA
AACACAAAGTAAAAAATTAATTGCATCTTTTTAGTTTTGTTGAGTTGTTCAATACTTTTT
TGAGAATGGGCTTTCGCATTCTCATTACGCTTACTTGCCCACACTTGAGGAAGTTTTTGA
GAGAGAAATTGGACTGGTAAAACAATCACTAAAAAGATGCATGACAGGTCACCCAGTTGT
AGTGAAATTAGAGACAATTTCTGTTAAAGGTACTTTTGAAAGATCCCAAAAGTTCAATAA

GATGATTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 527>:

GNMFU55F gnm_527

CCCAAAGTTACTCAAGAAACTCGCTTAGAAAATATTAAGGGATGGAAAAAAATAATAGAG
CAAATTTATCAAGAACTGAGGGTTGTAAGAAGAGATGCATTACAAATGATTAAAAAAGAT
AATCACAATGAGGATTTAGAAAACTCTTTAAAAGCTGAAATAGAAAAAATTAACAAAAAT
TATTCTAATCAATTAGAAGAGATTCAAAAAGACAAAGAAGAAGAATTGCTAACAATTTAA
ATGAATGAAAAAGCAAAACAATTCATCAAAAAGCGAACTTCAGTATTCATTGCTTTATTA
GTTGTATTTTGCTTTTTTCTTTTAATTAGCGCATTTGCTGATGGTTTTAACTTTTGATCA
CCGTGATCAGCAGATTTCAATTCAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 528>:

GNMFU56F gnm_528

TTTGGAATTCAACTTAACTGATGATCACATCAAAATTGTTCAGAGACCCAGATGACGCTA
AGTTAAGTGATGCCACCTTTGTTATTTTTGATATTGAAACCACTGGATTACATGGTAGGT
ATGATGATGTTATTGAGTTTTCAGCACGCAAAATTAAGAATAACAGCGAGATAGATCATC
AGCAATTCTTTTTAAAAATTGACAAACCTATCCCAAAAACAATCACTGAAATCACCAAAA
TAACTGATGAGATGCTTGAAGGCGGTATTGATCAACAGCAAGGTTTAGAAAAGATAAGAA
ATTATCTAGATGATTGTGTTATGGTAGCTCATAATGGTATTAATTTTGATTTACCCTTTT
TGCAAACTCAATTTGAAAAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 529>:

GNMFU57F gnm_529

CGGTCATTTTACTACGGTGTAAAAAACGTTTCATTGCACAGTCGAGAGATTTCAATAATT
TTAAAATTTATATTTTTATTATTACCACATGCGACTTGAAATAGAAAACGGGCTTGAATT
TGTCAATGATCCTGTGGTAAATGAACTTGGCAAGATCTGTTTTTTTCATCCTTTTACAGG
TAATTTAACAAACAAACTTAGTTTCAGAAGTCATTTCAATAGATACAGTTTTTATGCCAT
TAACTACCCAGGGCATGGTAATAGTGTTATTAACAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 530>:

GNMFU63F gnm_530

CAAAAATACACTAAAAAAACCAGTTATTATCCATGTTGGAACTCTATTGGAACTTGGGAA
AGGTTTATTGCTGCTTTACTTGAAAAAACAAGTGGTAATTTTCCTTTATGGTTAGCACCT
GTTCAAGCCGTAATTATTCCTGTTAATATCCAAAAGCATTTAAAGGCAGCAAAAAAACTT
TATAACAAATTGCTAAAAGAAAACATCCGTGTAAATTTAGATGATAATCAAGATCGCTTA
GCTAAAAAAGTTAGACAAGCAATCATTGAAAAAATTCCTTTACAACTTATTGTTGGAGAT
AAAGAAATAGAGAATTTAGAGAAGTTGACATGCCGTGGTTTTAAAGGTGAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 531>:

GNMFU64F gnm_531

GGCCCTGCTGGTTATATTGCTGCGGAGTATGCTGGCAAACATAAACTTAAAACCCTAGTG
ATTGAAAAGCAATACTTTGGTGGGGTGTGTTTAAATGTTGGGTGTATCCCAACTAAAACG
TTGTTAAAAAGAGCAAAGATTATTGATTATTTAGTTCATGCCAAAGATTATGGTATCACT
ATTAATGGTCAAGCTAAACTTGATTGAAAACAACTGTTAAAACAAAAACAGGAAGTAGTT
GATAAATTAGTTGCAGGGGTAAAAACAATTATTAAGGGTGCTAAGGTAGAAAGTATTGAA
GGGGAAGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 532>:

GNMFU65F gnm_532

CCAAAAATGGTTTTGACCATTCTTGGTAAATTTCTAATAGTCGGGAGTTnTCCCGTGGTG
TTTGGTGACATTTGCAATAGGTTGTATAAATAATCTAAATTTGGATAAAAATTACTTTGA
TTATTGGTTGAAATATTAAAGCTTTTTAACGCTTCATTTTTATCAATTGATTCATCAATT
CTTTGATTAATTAAACTAACTTCTTTAATTGCATTTATGAATTTATCTTTAAATTTAATA
GTTGGTTTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 533>:

GNMFU68F gnm_533

GGTCAAAAAGCAGCTTTAGAACGATTTAGCAATTAGTAGTGGAACCTTAGCATATAATAA
CGAAATTAATAGTGGTTTTAAAGATGTTACTGTTGATAATTTAGGTGATGCTAGAAAGGT
TCAAATAGCTAAAGAAAAAACTACTGTTATTGGTGGTAAAGGCAATAAGGATAAAATCAA
AAAGCATGTTGAACTTCTAAACGGAAGATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 534>:

GNMFU70F gnm_534

TTGGTCCCATCAATTGGTTGGTAAATTTGGGAGGATGTACAAGAGTTTCTATATGCATTG
CCGGTAGTGAGTTTAAATCCAGTTGAAGCATTGGGGCTGGGATTGTTGTTTAAGCCAATG
GAGTTGCGCATCGATCGTCACTGATTTGAATTTGAACCAAGATGTACCTCTATCTGGCTT
TTGCCCTTTTGTTTGGCCAAACTACTGTTTAAGGTATATTTAGTCAAAGGTTGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 535>:

GNMFU71F gnm_535

CCCGCCTTCAGCGCCAAAACCATTACAACTATGACATGAAACTTTTCTTTCATATTTGAT
GGTTTTGTTGCAACCATTAGTCATTTCAAAAAAGTTAATTTCAATTACTAAAGCAATATC
AAGGTTATAGGGAACAACAATTTGTTGTTGACGTTTTTTAGAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 536>:

GNMFU73F gnm_536

CTACTGTTTTTTCATTTGAAGCGGATTCAACTGGCAGAGCACTAGTAAATACTCTAGTAA
TTATTTTGATTACTATCACCATTACTTTTCCACTAGCACTTTTAATTGCAATTTGACTTA
ACGAGTACAATAATTCAAAAGTGGTTAAAAATGTTTTTAACTTTGTAATTGATTCACTAA
GTTCAATGCCATCTATTATTTATGGATTATTTGGACTTTCTTTCTTTTTAAGAGTCTTGC
AGTTAAGTGCTGGAGGAGCTAATGGTACTAGTTTAATAGCAGGCATTCTAACTATTAGTG
TTGTTATATTACTCTTCCGGGTACCGAGCTCGAATTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 537>:

GNMFU76F gnm_537

CCCCCAAAGATAAAACCCCTCGCTTCAGGACATACTATCGCTTCTGCATTAATAGCTTTA
ATAAACTGTGCCATTTGGGTTAGCACAAAATTAAATAGTTGGGGATTGGAAAATACTGGG
GTAATGTCATAAAACAATGTACCTTGGTTGGGAAAATTTTCAAAGCGCTTGATTGCTTGA
TCAAGCAACTTAAAGTTTTGATCCATAAATATCTTTTTTTTAAAAACTGTTAATTCCTGC
AATTAACTGCTCTTCAATCTGATCAATCTCTTTAAAAGGATGTTTTTTGTGTTTTAAGCT
CAAACGGGAATGAACATAGTTGAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 538>:

GNMFU77F gnm_538

GACATCTTCTTTTCTATCCAGGGATAGTTACTTTTAAGCATGGTGAAGCACGGCATGAAG
CTTTAAAGATTATTCCTAGTGAATTACTTTTAAGTGAACTGACTCACCGTGATTAACCCC
TTCTCCTTTTCGAGGCAAAGTTAACTGACCTGAATATGTAGTTCATACTGTTAGCACTGT
TGCTGAAATAAAAAAAATAGAAATTGCTGAAATGAAGCGAATTATTGTTAAAAATGCAAA
AAAATTATTTTGACATTAAAAGTTAAATAAAGCAATTTATTTAACAAATGGATGTTAGAA
CTGAAAGATTAAACGAATTGTTTTTTGTTTATCATAAAAACTTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 539>:

GNMFU78F gnm_539

AAATTACCTTGCGTTGACAAACAAGATATTAAACCAGAAGAAGCAGACGAACTTAAAAAG
CGTTTTGTTGAAGTTGGTGCAACTGTTGAAGTTAAATAAAGATGGCAGTACAACAACGGC
GTTCTAGTAAACACCGTCGTGATAAAAGACGTTCTCACGATGCACTTACTCTACAAACTT
TAAGTGTTTGTAAGAAATGTGGAAAGAAGAAGTTATCACATCGTGTGTGCTCTTGTGGTA
TGTACGGTGAACTAAGAGTTAAAAAAGCTCACTAATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 540>:

GNMFU83F gnm_540

AGTTAGTTGTAAATTCGCTTCAAAAACACCAAAAGCTCACCAAAGAAATAGACCTTGATT
TCACCAAGCTTGATGAGATTATTGCAACCATTTTTGATGAAACTAAGAATCCAAAGACTG
GCTTTACTAACTTCATTAAGCAGTTTGAAAAAACCAAAGCAAAACTAACAAAAAAGATAG
CTGAAATTACTAAACTTGATCATTCAACGCCAACAAATTATCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 541>:

GNMFU84F gnm_541

ACTAGTTTCATGGTAATCAAAGTTAATAGGATCAATTCCTGCATAAGCAGTTTTAGGTAA
AGTACTGGTTTGGATAAACACCATTGCATCTTGTTTTAAACGAGTTTGAACTTGGTAGTT
CATCTCTTCTGGTTTGGAATTTATCTTAGGATTGGCAAACCTACCCAATAAGAATGATTG
GGTTTTTTGATCAAATGGAAAACTAAGACCATTTCCATCTTTATTGTATGGTTGATAATC
ATGATCATTCTTTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 542>:

GNMFU86F gnm_542

CAAGAAAAATAGATCAGTAGGATCAATCCTTTTTTATGTACCTAGTTTTATTCTGATTAT
TGCTATTCTAATTGGTTCTTTTGTTGCTGGTAGTTTATTGTTGCAAGATGTCAATAATTA
TCGTGATTCTGCTTGGGAAGTTAGTTTATTTTTCTCACCTAATTTAATTGCAACTTTTTT
TTCAATTTTGTTAACAGGAACAGTAGTTAGTTATCTTTTCCCTCGTTATAATTTTGCTGA
AATTAAAGTATTTACTGATAAGCTTGAAGAAGTTAGAAAAGCATTGTTAAGTGATAATGC
TAATCACAGTTTATCTATTCAAGAAACGCTTGGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 543>:

GNMFU89F gnm_543

CTGGTTATTCTTGGCCTTTTTAGCGCGGTTAAAATGGTGCACTTATTTTTGGAGTTTTTT
AAAGCTTTGTTTCACAATTTTAAGCCAACGCTTTACTTCGTTATGTGCTTCTTGTCAGGG
TTGGGGTGAAGTAAGGTCAATCCCTAAGAGTTTAATGGTTTCAAGTGGCGCTAAACTAGA
ACCTGAACTGAGGAATTTAAAGTAATTATCTTTCATCTTTTTATCACCACTATTAATTTT
TTTAGCTACTAAAATACCTGCAACTTGGCCAATGGCATACTTGTAAACATAGAAGTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 544>:

GNMFU91F gnm_544

ATGTAAACAGTGTTAATTTAACAAATAATGAAAATGAAATTAAAGTTAAACAAACTAAAA
AAACAATGTGTGAAAGATGCTGAAATTTTCAAACAATCATTAAGCCAAAATTAGATCATA
ATTTGTGCTCACGTTGTTTTAAAGTGTGTTAAAAAAATAATTGTGAAAAGGTTTTCAGAT
CTTAATCAGATTGATATTTCTCAAGCTTGAAGTTTTCTTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 545>:

GNMFU92F gnm_545

GGCAAAACCCTCTTAACAATTCTTTGTACACAAATACTATGGCACTGGCAATAACAATAG
CAATGATAATGCTAAAGGGTAAAGAGATTAGTGAATAGAGAAAACTATTGCGTAACCCAA
CACAAAGTTAGATTCACTAAACAGATCCTGAAAGGTTCGTAAACTAAAGGATTGGGAGGA
GAGATCATACAGATCACTGTTAGCACTAAAACCCTTCTGTAAGCTTAAAAAGAAGGGGAT
AATGGTAAACAAAATTGTTGTTAAAAGCGCAGGGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 546>:

GNMFU93F gnm_546

ACCTTTTTCGCTTTTAGGTAGTTTAAGAAAAGGTTATATGCTAGATGAAATGCTCTTAGA
ACAGTAAATATTTGCTACAATCATAACGCTTTAGTTTTTAGTTGATACACCAAAATCCGT
AGTCAATTTATTAACTAACTAGTGAACTAGATTTTGATGAATAGCGCTGTAAAATATCCT
GAGCTGAAGATCAAACTTGAGTCTTATGATAGCACCCTTTTAGATCTCGCTATTAAAAAG
ATAGTTGAGGTTGTAAAGGGTGTGAACATTAAGATTAAAGGTCCTTTACCTTTGCCTACT
AAAAAGGAAGTGATCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 547>:

GNMFU94F gnm_547

TCCTAAGTTATTTGATTACTTTAACCGAATTTGTTGATATTGGTGATCAAATTGTTGTTA
GTGGTAAGCCAATGTTAACTAAAACAAAGGTATTAACTTTAGCTGTTGAAGAGATGAAAA
TCATTGCTAAGTGTTTATTGGTTCCACCTGAAAAGTGACATGGACTTACTGATATTGAAA
CCCGCGCTCGCAAGCGCTTTCTTGATCTTACCTATAACTTAGCAATGCGTGATGTTTTTC
TGAAACGCACTAAGATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 548>:

GNMFU95F gnm_548

CAAAAATGAACTCACGATCCACGGAGGAGGAGTTGATTTAAAGTTCCCCCACCATGAAAA
TGAAAATGCCTTACACATGGCTTTATATAACCAGCCCATTACCAAACATTGGATGCATAT
TGGTCATTTGATGATTGAAAACCAAAAGATGTCAAAGTCATTGCAGAACTTCTTGTTAGC
AGTTGATTTTCTTAACTTTCATGATTTTCGTGTTTTGCGTTGGATCTTTTACCAAAAACA
CTATTAGCATCCTATTGATCTAAACCAATCATTGATTGAAAAAGCTAATAATGATATTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 549>:

GNMFU96F gnm_549

AACCTAGTGAAGCAATTGAAGCAGTATTGAAATATTGGAGTTTTCATCAGGACTTAAATT
TCATTCTGATCGGTGATGAAAAGGCTTTTGATGGTCTTGATATACTTCCAAAAAATATTA
CAAAAAAACTTGCTAATTCTTTCATTGAAATGACCGACACTCCACTAAGTGCAAGAAGAA
AAGTTAACAGTTCAATGCAAATAGCCATAAACTTAGTTCGTGAAGGTAATGCTGATGTTG
TAATTTCAGCAGGCTCTTCAGCAGTTTATGCTTCTTTAACAAATGATGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 550>:

GNMFW16TF gnm_550

CAGGCATTTATCTGGAAATAACTGAAACCGAACAGACCTAGATTCCCGCCTGCGCGGGAA
TGACGGCTGCAGATGCCCGACGGTCTTTATAGCGGATTAACAAAAATCAGGACAAGGCGA
CTAATCCGCAGACAGTACAGATAGTACGGAACCGATTCACTTGTTAAAGAATCGTTCTCT
TTGAGCTAAGGCGACGCAACGCCGTACTGGTTTTTGTTCATCCACTATAACTAAGGAAAT

TCAAATTAACTTAGAATTATCCCTATGAGAAAAAGCCGTCTAAGCCGGTATAAACAGAAT
AAACTCATTGAGCTATTTGTCGAAAGTTCAAATTTCCATTTTAAAACAATTAGTAAAATC
GAGTTTATCCTAATTGTCCAAGACAACCCCTATAATACTATAATTCAGAATATAAAAATG
GGTTACATCTAAACATTACGGAATTTTTATTCCCTCGCCTGAATTCTATTGTCAGATTCA
ACGAGACCTCATCATGTCAACGACTCCAACCTTCCCTACACAGACTTTCAAACCGACTGC
CATGGCGTTAGCTGTTGCAACAACACTTTCTGCCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 551>:

GNMFW46TF gnm_551

TTGTTAATATATTTTCGCGATTAACGTTTCTTAATATTAATTCGGGTACAATCCTTTCCG
CTGATTACCGCTGCCGTTTCTCCCTTTTCGGCAGTGCAGCAAGTAAGACGTTTTCCCGCA
ATGTATTGACCATTCATACTTACCCTTGGTATGAATGGTTTTTTTTGCACGTTGAAAATG
CCGTCTGAACGTTGGGTACCGAGCTCGAATTCGTAATCATGGTCATAGCTGTTTCCTGTG
TGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAA
GCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCT
TTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGA
GGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTC
GTTCGGCTGCGGCGAGCGGTATCAGCTCAATCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 552>:

GNMFW72TRC gnm_552

AACCGCTCTGCCGTCATTCCCGCACAGGCGGGAATCCATACCTTAGCACAACAGTAATAT
TCAAAGATTATCTGAAAGTCCGAGATTCTGGATTCCCGCCTGCGCGGGAATGACGAATTT
TAGGTTTCTGATTTTGTTTTTCTGTTTTTGTGGGAATGATGAAATTTTGAGTTTTAGGAA
TTTATCGGCAAAAATAGAAACCGCTCTGCCGTCATTCCCGCTCAGGCGGGAATCTAGACC
TTAGAACAACAGCAATATTCAAAGATTATCTGAAAGTCTGATATTCTACATTCCCACTTT
CGTGGGAATGACGGGATGTAGGTTCGTGGGAATGACATGGTGCAGGTTCATGGGAATGAC
GTGGTGCAGGTTCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 553>:

GNMFY91F gnm_553

GTGCGCCGATTTTCCAAATCTGTTTGAACACCGCCCAATCCGGTTTGCCGAATTTCGCCG
TCAGTCCGAATGGGCGGAAGAAATTTTCCTTGGCGATATGAATCTCCTTTGGCCGAGTCT
GCCGCTTCTCGATCTGTTTCGGCGCCAGTCCGCAGCCTGCGCCGCCCAAAGCGGGCATAC
CGAATTTGCCGTAAACGAAAATATAGTTCAGCGGCACGTTCAACACAAACGCCGCAAAGC
TGACCAACATAATCAGGCGCGGGCGGTTCAGGCTGGAAGTGTAGGCGTGCAGCGCGCGGT
GTACCATTGCCGCCGGCATCGCCAAGCTGGTGAACAACATATACTGCGCCATCGTGCCTT
CCACATAATCGCTCAAGGTCAGCCAGTTGCGGAAGGCGTAATCGCCGCCCACATCAAGAC
CATGCCGAACACGCCCAAAAACAGCCCGAACCAAATCCCCTGCCGCCCCGTTTCGCCCAC
TTCGTCGGTTTTACCCGCGCCGTAAAGCTGGGCAATCATCGGGTTCAGCGCCGCCATAAT
GCCCATAAAGGTAATATAAACCGTGGCAAACGCGCTGCTGCCCAAAGCCAACGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 554>:

GNMGA51TR gnm_554

AAATTATTTTATTTTGTTATGAAAACCTTCGAAAAAACATGGTCTGCACAATATCGGGAT
ATGGAAATTTCAGTACGGAATTTTTGGAATTTGGAGCGGACAAGGGCGGAAGTCTATATC
AACGGAAGGCGGGTTTATCATAACGAAGCCGAAATGGCGTCTGCTTCTTTGCGTTAGCTA
ATGGGGGAATACCTGGAATTTGAAGAAAGCGGTACGAAAATTACCGTTGAAATCGGCAGC
GCGTGGCATTTTAATGAAACTATAAGAAATATTAATACACATTTAAnGAGGTACGAnACT
TC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 555>:

gnm_555

AAAGACGGCGTTGATGGTTTTAACATTTGCGCTCATTCGGATTTGAGCCATGGCAATCTT
CCTTTAATGTGGTGGAAATCATGAGTGTTGCCGACACTGTACTGCTGCCTCCGGTCGAAC
TGCCGTTTCGGGATATGGCAGACGCATCCTTCCTAACCGCATCCGAATACCCCCAAACCT
GACCGAATGCAAAACTGCTGCCGGAAACGGTTTGTATGACACTTCTACTACTGGATGTTG
CGGGCGCATTATAATATTTTTCCATCCGTCTTGAAACATTTATTTACACTTTATTTACAC
TGCGGCGGCAAATCGGTATACGAGCGTCAATACACGTTAAAATGGCGTTTTGCACCAGTT
TGGGAGTGATGATGGAAACACAGCTTTACATCGGCATCATGTCGGGAACCAGCATGGACG
GGGCGGATGCCGTACTGATACGGATGGACGGCGGCAAATGGCTGGGCGCGGAAGGGCACG
CCTTTACCCCCTACCCCGGCAGGTTACGCCGCCAATTGCTGGATTTGCAGGACACAGGCG
CAGACGAACTGCACCGCAGCAGGATTTTGTCGCAAGAACTCAGCCGCCTATATGCGCAAA
CCGCCGCCGAACTGCTGTGCAGTCAAAACCTCGCACCGTCCGACATTACCGCCCTCGGCT
GCCACGGGCAAACCGTCCGACACGCGCCGGAACACGGTTACAGCATACAGCTTGCCGATT
TGCCGCTGCTGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 556>:

gnm_556

CTAGAGGATCCCGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGGTAC
ACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGA
GTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGTGTGTTGTTTTGTTTGC
AAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGGTACCGAGCTCG
AATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCA
CACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAA
CTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAG
CTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTcCG
CTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTC
ACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGT
GAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCC
ATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAAGTGGCGAAA
CCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 557>:

GNMGJ04R gnm_557

CATTCCATAGTTTGCCTTTTTACTCTGTTAATTGTGTCTTTTGGTGCATAGCAGTTTTAA
AGTTTGATATAGTCTCACTTGTCTATTTTTGCTTTTGTTGCCTGTGCTATTGGTGTCATA
TCCAAGAAATTATTGTTATATCCAATATTATGAAGCTCTTCTTCTGTGTTTTCTTCTAGG

AATTTTATAGTTTTTTATTTTAATGTTTAGGTTTTTAATCCATTTAGAGTTAATATTTTG
CTTATGGTGTAAGATAAAGGTCTAATTTCACTTGTTTGCATGTGGATGTCCAGTTTTCCC
AGGGCCATTTGTTGCAGATTGTCCTCTCACCCATTCTTTCTCACCTTTAACACTGCTGTG
AATGGCCTTTATTTTCTACCTTACACCATTTGACTCTCTCCTTCCTAGAAAAAAACCTTT
CTCAATCCCACTTAAACTCATTTAGTGGATTGCATTGGTCTGGATTATCAGAGGTTTCTG
TAATTAGGTTGGCTGTGCCAATAAATATCTTCATGGATATCCTGAATTTGTTTTGTATAA
AGAAGAAATAGGCAGATGACATTGGTAGTGGATCGGTGAGAAATTTGCAATAAAACTCAA
ATGTGCAAGATGTGCCACATTTGTGTTTCTTTTCCTCAAATTACAAATATTGGATTTGCC
CTCCATCCGTCACAATTTCTGGGCAATTCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 558>:

GNMGK65TF gnm_558

AGCATGGGCAGCGTATCGGCGGCGGCGGCAAGAAAGCTGCCCGCCGCAAACACGACCAGT
CCCGCATAAATGGTTTTCTTGCGCCCGAACTTGTCGGAAGCGATGCCAAAGGGAATTTGA
ACAAAACCCGGGGCAACCCCTTAATGGCCAATGGCAACCCCGACAACGGTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 559>:

GNMGL93TR gnm_559

CGTCTGAAGGCTTCAGACGGCATTTGTGCGTTTGTCGGGCGGTGTTTAGGGGGCGGTAAC
GGCGTGTTTCGGCACTTTGTCCATATCCCAGTGTGCCACCGCCCAGTCGAGCAGTTCGGC
AGGGCGGTCGGTTTCCGGTGCTTCGGGCAGCTTGAGGTAACGGAACACTTGGCGGATGAG
TTGTTCGCGGCGGTTTAAAGCCAATGCGGGGGCGAGCGTCTGTTTCGACCAGTTCTGCCC
TTGTGCGTTGGTCATCAGCGGCAGGTGGGCATATTGCGGTGTCTGAACGTCCAAACACTG
CTGCAAATAGGTTTGGCGCTGCGTGGCAACGAGCAAGTCTTGTCCGCGGACGATGTGGGT
AACGCCCTGTTCGGCATCGTCGGCAACGACGGCGAGCTGGTATGCCCAGTAACCGTCTGC
ACGACGCATGACGAAATCGCCGATGTCGCTGGCCAGGTTTTGGGCGTAACCGCCGACGAT
GCCGTCTGAAAAGCCGATAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 560>:

GNMGO35TF gnm_560

GAATGACATATTCATAAGTTTCCCGAAATTCCAACATAACCGAAACCTGACAGTAACCGT
AGCAACTGAACCGTCATTCCCACGAAAGTGGGAATCTATAAATGAAAAGCAACAGGCATT
TATCGGAAATAACTGAAACCGAACAGACTATATTCCCGCCTGCGCGGGAATGACCGCTGC
AGATGCCCGACAGTCTTTATAGCGGGTTAACAAGTGTCAGGACAAGGCGGCTACGCCGCA
GACAGTACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 561>:

gnm_561

AGCATGGCGCACAGCAATGCCGTCTGAATACGCCTCCCGCTCGGTACACGGCGAGATCGG
CAATGGCAGCGGTACTTTGGCCGCCGATATGCTTAAGTTCAGTAACCTTACGCCACCAAA
ACCCTTGCTAGCTAAGGGTTAAACAGCTCACTTGAAATCTACTTAAGTCTAATCTAAACT
ATCCAATATGGATAGATTTTTAAACATAGGGCAAGCAGCAAAATTATTGTAGCTGAAAGC
ACAATCACTCGCTGGTGGTCTCAAACACGTGCCGACTACCTCGCCGAAAACACTATCAGC

CGCGATAAACCGTGGGAAAAGCTCGTTATCAGCCGCCGCACTTGGTACTATCGCGGGAAA
CCGATGCTGTCTGAAACGCAACAGGAGAAAAATAATGAGCCGTTACCTGATTACCTTTGA
TATGGATACCAACTGCCTGAAAGACAATTACCACGGAAATAACTATACCAATGCCTACTC
CGATATTAAAACCATCTTGGCTAGACATGGATTTGAGAACATTCAGGGCAGTGTTTATCT
AGGCCGTGAAGGCATCAGTGAAGCACACGGAACAATAGCCATTCAGGAACTGACCGCTCG
GTTTGATTGGTTTTACTCCTGTATTTCAAACATTAAGTTTTACCGCCTTGAAAGTGATTT
GAACGCACAATTTATCGCTGATGGTGTGTATCAAGCCAAACAGGCTTTCCTTCAACGTGT
TGAACAACTTCGTATATCCCTAACAGAAGCTGGATTGTCTGATGAGCAAATCAATCAGGT
TCTGGAAAAACAGAAATTTGAATTGGAAAGTCCTAACCTGAAATTAAATTAACCTCCTTT
ACTCACCAACATCCGCCGCAGCTCTGTCAGTTTTTGGCGCGCTGCGGCGATTTCTGTGCG
TTTTAGAGCTTCGGGTAsGGTGTGAAACAACTCACTCGAAATTTACTTAAGTCTAATCTA
AACTATCCAAGCAGTAATTAGTACAwAAAAGGCAAACTTATTTTAGGAGTTTAAAATTGC
AGCTGCGATAAACCGTGGGAGAGTCTCGGCATTTCCCGCGCCACTTTGTACAAACGTGGC
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 562>:

gnm_562

CATATAGCCGATGGTATAGATATGCACCATCAACGACACGCCCGTTACCACGACCATCAT
CATCGCCGTCATCGTATCGACCAAGAAGCCGACGGAGAAATCCAAGCCGCCCATTGTCAG
CCAGGTATAGACATTCTCGTCAAACGTGGCGCGGCTGCCGTCAATAAAGCCCCACAGCAC
ATAAGCCGACAGCACGGCGGACACCGCCACGCCGAGTATCGTAACCGTATGCGCACCGGC
ACGTCCGATTTTGTTGCCGAACAAACCCGCAATCAGCGAGCCTGCCAACGGAACAAGGGC
AATTATCAAATATAAAGTCATATCGTTCATTTGATTGAATCCGATTGATTTAAAAATCTA
TGTTTGTTTCGTACAAAATTACTTCGGAAAAACAAATCCAACACGCTCCAATCGTTTGCG
TGCCACAGCTAATTGCTCTTCAGTAAATAAATCACACCACGGCTTTTGTAACACCAGATA
TTCCATACTGTATTTCAAGGCGTGGACTCCGCCACCACTCAAAATCAGCTTGCTCGGCGG
CGGTTAGTTCGGAGATGACCACTTTGTCCCCCTCTTTCAACCCGCTTTTTACTTCGGTAT
TCATACTGTCTCTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 563>:

gnm_563

CTTCAACCATGCCAAAACGGGCAGGACGGCGGTTGTCGACTTGCTCATCAACACGCCCGC
CATCCAAGACTTCATCCTGAAGGGCGACCTGATGAACATCAGTAAAATCATGGAAACCGC
CAAAACCGACGGAATGCAGACGATGGATCAAAACCTTTTCGAACTGTACCGTCACGGCAT
CATCAGTTACGAAGAAGCCCTGCGCCAGTCCGTTTCCGCCAACAACCTGCGATTGCACAT
CCAACTGCACAAAGAAGGCAAAACGCCCGAACTCCTTTACGACAGGGTCAACGGTCTCAA
CCTCATTTCCTGATCCGCAAAACCCAATGCCGTCTGAAAACCGCATCCCCGTTTTCAGAC
GGCATGATTTTATCCGTCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 564>:

gnm_564

CGAACAGTCGGCATTGCGCCCCGAATTGTGGCAGGCGTTCCGACCGTTGGGGCTGACGCA
TTTGGTCAGTATTTCGGGTTTGCACGTTACGATGGTGGCGGTGATGTTTGCGTGGCTGGC
GAAGCGGCTGCTTGCCTGTTCCCCGCGCCTTCCTGCACGGTCGCGCGTGTGGGTTTTGCG
GGCGGGGTGTGCATGCGCTCTGTTTTACGCGCTGCTTGCCGGTTTTTCCGTGCCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 565>:

gnm_565

ATAGCGGATGTGGTCAAGTGTATCGACGAATACAGCAACCGCCCGCACGGCGAGCTGCCC
CGACATCCTGACGGCGGGCATTATACGCCTAAGGCTTATCGGGAAATGAGCCTGGAACAG
GACGGTATCGCGCCGGATATGCTGTCGGCGCAAGAGCTGGCGACGATGTTTATCCCGCAA
GAGGTGCGAAAGTTACAGCGCGGCTGGCTGGATCATGCTTAACAACTCTTATTTCTCAAC
CGAGCTGGCGGAGTATCACAAAGACGAGGTACGGGTCAGCTACGATCTGAGCGATGCGTC
GGCGGCCAATGTGTTTGATATGGACGGCAAGTTTATTACTAAGGCGCAGGCCAACGGCAA
TACCCGCGAGGCTTTCCCGACGGCTCGTATCGACCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 566>:

gnm_566

CCTGGGTTCATCGTCTTCTTCCCAATCTGACCCCAAACATTCGCCTTTTGGTTTGACGTG
ATGACAGGTAAACATACCTTTATTTCGGTCTTCACGGGCTTGGTTCGGGCTGTATTCGCC
GTTGAAAAAGTCTTTTGCGATGTCAACGCGTGTGATTTTTGGGCGGATTGCATTAGTCAG
GAATGAGAAAAGTCGTGATTCCCAGCCTTCTTTTGCGACGCCGCAACCGGTGCCGGTCAG
TTCGAAAAGAATGGCATTTTGTTGGCCGCCAAAATGGACGCGACCGTATAGGGCGTCTTC
CGAACCCATCAACCAACAGAGCTCATACATACGACCGCCCGAAACTTTGGATTCTTTGTA
GATACCGGAACCGACAACTTCTTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 567>:

gnm_567

CCGGCATCCTGCCCGAAGCGATGCTCAACTATCTGGCACGCTTGGGCTGGGCGCACGGAG
ACGATGAGTTCTTCACAATGGAACAGTTCATCGAATGGTTTGATTTGAAAGACGTTTCCC
CGTCTCCAAGCCGTATGGACTTGAAAAAACTCTACTGGATCAACGGAGAACACATCACAA
TCACACACAACGGCAAACTCGCCGAACTCGTCAAACCCCGCCTTGCGTTGCGCGATATTC
ATGAAACCGAAGAACCTGCTTTGGAAGATGTGTTGGAACTGGTCAAAGACCGCACCCAAG
ACTTGGTCACGCTTGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 568>:

GNMGS92TR gnm_568

CGCCCAAGAGTGCGGACATCGGTACGAAATGCGCGTCTTTCAAACCGAGCTGTTCGGCAA
GTCGGCGGTATGCCTCCACAATGGCGTTGAATTTGTCTTCGCTGTAATCCAGCAGGTCCA
TTTTGTTGACCGCCACCACAATATGCGGGCAGTTGAGTTGGCGGAGGATGGCGGAATGGT
GTTTGGCCTGCGGCAGAAGCTGCAAGGGCTGCGCGCCGAAATCCAGTTGGGATGCGTCAA
CCAGCACGACTGCCGCCGAAGCGGTGCTTGCGCCCGTAACCATATTGCGCGTGTATTGTT
CGTGCCCCGGAGTGTCGGGGATGATGAATTTCCGTTTCGCCGTGGAAAAATAGCGGTATG
CCACATCGATCGTAATGCCCTGTTCGCGTTCGGCTTCCAGTCCGTCGGTCAGGATGGCGA
GACCAATGCCACGGTTTCCATGCCGTCTGAAACCGGCGCGCCCGTTCCCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 569>:

GNMGS94TR gnm_569

ATCTGCTTTTTTCACCGCGCGCGGTTTGCCGTCTTTATTGGTAAATTTGGGCGGATCGAT
TATGCTGCCCACAAGCCGGTAATCCACTTCGAATTTATGGCATGAATGATGAATCAAAAA
CCGGTTGAAGCCGTTTTTGCTTTGGGCGATGGTTTGCATATTCAAAAAATCGCCAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 570>:

GNMGT51TR gnm_570

CAGGATCCTTGGTGGCCTCCTGCACGGGTTCGGGCAGGCTTAAAAGGCGCAGGCTGTTGG
AAATCGCGCTTCGGCTTTTACCGACGGCTTGGGCGATGGTTTCGTGGGTCAGCCCGAACT
CGTCGGCAAGGCGTTTCAAGCCTTGTGCTTCTTCGATGGGGTTGAGGTTTTCGCGCTGGA
GGTTTTCGATCAAACCCATTGCCAATGCGGTTTCGTCGCTGATGGTTTTGATAACGGCGG
GGATTTCGGTCAGGCCGGCAATCTGTGCGGCGCGCCAACGGCGTTCGCCTGCAATCAGTT
CGTATCGGGACAGTCCGTGTTCGCGCACGATGACGGGCTGTATCACGCCTTGCGCCTTAA
TCGAATCTGCCAGTTCCTGCAAGGCTTCGTCATCGATTTGAACACGCGCCTGATAGCGGC
CGGGCCGGATATCTTTAACCGCAACCGTGGTCAATCGGTCGCCGCTGCTGTTGTCCGCGC
CGTTGGCGAGCAGCGAATCCAAGCCGCGCCCCAATCCGCCTTTTACTTTTGCCATACCGC
CCTCCCGTGCCTATTCAGATAGGATGTTAAATCGGGTATTTTATCGGATATTGGGTGTTG
CCGACAATTTGTATCCGCGTTTATCGGATTTCTGTTTTTTCACTATAATAGCCGGTTTGC
CGTTGCAnGCGGTTTTATGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 571>:

GNMGT89TR gnm_571

GCCTGTATGCTCTTCTTTGAAAGTTTCGTATACGTCATGGGCTAAAAGGGCTGTTCCGAC
ATAAGGAACTGCCCTTGTGCTTAATTTCGCGCCTAAGCGGGCAAGTTTGCCGACCCCCGC
CAATACGCCAGCGCGGGAAACTGATGAAGATACAACCGAACTAACTTTACCCGTACTTGA
TGCTCCAGTAGATACATGCCTAACTTTTAAATCTTGAGCTTCTGAAGTTAAATATCTTCC
CGATTCTCTATCAAATACACCTTTCCAAATTCTTCTTCTTTTGTCATCTGAACCTCGAAT
ACCTAAnATAGTGGAAnnGnTCCGACAGCAGAGTCCCAAGAAAATTACCCGGAGCATTTA
CTGATGCCAATGCAAATTTAGATACAAAAAAACTAAAGCATAGGATAATCTTTAAAAAAT
TTCGCCCTAGGATAATAAACATAACATTTTGCTTCATCTAATTTAATTAATAATGTAGAA
GAATCAGGGAATTGAATTTCTATAAAATCTCTATCATAACGATGAAAGAAATTCCTAAAA
ATATCAAATGAAAACGAAGTTTTAAAAACCCCTTTTCTAATCAATTCCCTATAATAAATT
AACGCTTGTGGTAAATCTCTATAAATATGTGAATCAGTTTGAAAATTTAACTAAATGATA
TTCAGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 572>:

GNMGT90TR gnm_572

TGAATATCCAGTCCAACCTTGACGAACCCTTTTCCGGCAGCATTACCGGTAACCGCGCGA
AGAAGCCAAAGCCCTGCTAGGCGGCGGCAGCGTTACCGTTTCCGAAAAAGGCCTGACCGC
CAAAGTCCACAAGTTGGGCGACAAAGCCGTCATTGCCGTTTCTTCCGAACAGGCAGTCCG
CGATCCCGTCCTGGTGTTCCGCATCGGCGCATGCGACTTCCAACCAAACCGCACCGCCAT
CCTCGATCCTGTCGGCTACTCGCCCAAAACCAAATCTGCACTTTCAGACGGCAAGACACA
CCGCAGCAGAACCATTTATGCAGAGTCCCAAGAAAATCAAAACGCCAAATCCCATACCAT
TAATCAGAATTCTTCCTATTTTTTCGAATCCACTATTTCTTCCAAAGCGGCAAAACCCAT
ACCGTCCGCAAAGGCGAAACGGTCAAACAGATTGCCGCCGCCATCCGCCCGAAACACCTG

ACGCTCGAACAGGTTGCCGATGCGCTGCTGAAGGCAAACCCAAATGTTTCCGCACACGGC
AGACTGCGTGCGGGCAGCCTGCTTCACATTCCGAATCTGAACAGGATAAAAGCGGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 573>:

GNMGU42TR gnm_573

CGTTGTTCGGTTCGGTTTTCGTCATACCAAATTCCTTATTTCTTCTGTCTGAGATTTATG
AATTATTTGTGCAGCCCGCATTCTTTGCTGTTTCTGCCTTCCCACCACCACCGCCCGGAG
CGGATGTCTTCGCCCGCCTTGACGGGGCGGATGCAGGGGTCGCAGCCTATGCTGGGAAAT
CCTTGACGGTACAAATCGCTGTGAGGCACATTGTTGGAGAGGATGTATGCCCACACGTCG
TGTTCCGACTAGTCGAAAATCGGGTTGTATTTGCCGATGCCCCGTCCGGCATCGTATTCG
GCATACAGCAGTTCCGTGCGTGTGGCGGATTGTTCGCGGCGTTGCCCGGTAAGCCACGCG
TCCGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 574>:

gnm_574

TGTCGCGCTGACGCGTGCCGAGGAACAGCTCAACATCtATtCsGCgTaCTCtCCAAkACs
GCaAAAACAACCCCCcGCCTACwTGATTGAAGGCTCGccAgaCaTsCGCGGGAATGACGG
CATTTCTGCGGCAATCGGATTATTTCCAAACCAAAAGCGCGTGGTTGCGTTTGCCGCGCC
GAAGGATAGTGTATTTGCCGAAACGTTTGTGTTCGCCGTTCAGCAGGCAGGCATCGTCGG
GGCGTTCGGCGGCGTGGTTGGGGTTGTTGGCTTCGGCAGGTTTGCCGTTGAGCAAAACCG
CTTTGCTGTTCACAAAGCCGCGCGCTTCTTTATTGGAGGATGCCAAACCGGTTTTTACCA
AGGCTTCGACGACATTGATGCCGTCTGAAACTTCAAATGCAGGCAGGCCGTCGAGGGCGA
GCTGCTCGAAGTCGCTTTCGGTCAGGCTGCTTTGGTCTTCGGCAAACAGGCTTTCGGAAA
TGCGTTGCGCGGCGGCAAGGGCTTCTTCGCCGTGAATCAGGCGGGTCATTTCTTCGGCGA
GGATGCGTTGCGCTTCGGGCTTGCTGCCGCTTGCCTTGTCTTTGGCTTCGATGGCATCGA
TTTCTTCGATGGACAGGAAGGTAAAGTATTTCAGGAATTTATACACATCGGCATCGGCGA
CTTTCAGCCAGAATTGGTAGAACTGATArGGCGAGGTTTTTTTCGCGTTCAGCCATACCG
CGCCGCCTTCGGTTTTGCCGAATTTGGTACCGTCTGATTTGGTTACCAAAGGCAGGGTCA
GACCGAATACTTGTTTTTGGTGCAGGCGGCGGGTCAGGTCGATACCGGCGGTGATATTGC
CTCATTGGTCGGAGCCGCCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 575>:

gnm_575

TACCGCGCACGGGCGTTTGAAATAGAAACCGATCAAGAGATACGACACCAAGCCCACCGC
TTCCCAACCGAAGAAGAGCTGAATGAAGTTGTTGCTCATAATCAGCATCAACATACTGAA
TGTAAACAAAGAAATATAGCTGAAGAAGCGTTGGTAGCCGACTTTTTCATCGTGCATATA
GCCGATGGTATAGATATGCACCATCAACGACACGCCCGTTACCACGACCATCATCATCGC
CGTCATCGTATCGACCAAGAAGCCGACGGAGAAATCCAAGCCGCCCATTGTCAGCCAGGT
ATAGACATTCTCGTCAAACTTGGCGCGGCTGCCGTCAATAAAGCCCCACAGCACATAAGC
CGACAGCACGGCGGACACCGCCACGCCGAGTATCGTAACCGTATGCGCACCGGCACGTCC
GATTTTGTTGCCGAACAAACCCGCAATCAGCGAGCCTGCCAACGGAACAAGGGCAATTAT
CAAATATAAAGTCATATCGTTCATTTGATTGAATCCGATTGATTTAAAAATCTATGTTTG
TTTCGTACAAAATTACTTCGGAAAAACAAATCCAACACGCTCCAATCGTTTGCGTGCCAC
AGCTAATTGCTCTTCAGTAAATAAATCACACCACGGCTTTTGTAACACCAGATATTCCAT
ACTGTATTTCACCGTCATTCGGGACATTTCCGCCCTGCTCGGCAAACCCTTTGTCGCACC
TGCCAAAACCCAAGCCAAAGCACTCGCCCGGATAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 576>:

GNMHA81TRB gnm_576

AGAATACGCGCGGGTCAGAACACGCCGACCACCGTCCGGGTTTTGTCGTTTTGAAATATT
CCTCTAAATACGGCAGGCGGTTTTTATCGACGGACAAACCGGTTTTCACGCCCAGTTTGC
TCAAGGTGTCGAGCATACCCAAATCGTAAACGGCGATGCGTTCGGGGTTTTGCGGTATTT
GAACGTCGCCGCGCGCGGTTTTGACGGTAACGGACGCGCCTTCGGTTTGTGCGGCGGAAA
CCGCCTGTTCTTTGGCTTGTGGGGCAGAGTCGGAATTTTGCGGCGAACACGCGCCCAAAG
CGAGGGCGGTGCATACGGCTAAAGCAGTCAAACGTAACATACGTGTCTCCAAAATGGGGG
ATATTGGGGCAAAGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 577>:

GNMHC73TF gnm_577

TACTCTAGAAGGATCCCCCGGCTAAAGAACTCGGCTACGCCTCCGACCTCGACCTCGTCT
ATCTCTACGACGACCCCCACCCCGACGCAGGCGACGTGTACAGCCGCCTCGCCCGCCGCC
TGACCAACTGGCTTTCCGCCGCCACTGGCGCAGGCAGCCTCTACGAAACCGACCTGCGCC
TGCGCCCTAATGGCGACGCCGGTTTCCTCGCCCACAGCATCGCCGCCTTTGAAACATACT
AGCGCGAAAACGCCTGGACGTGGGAACACCACTCGCTTACCCGCGCCCGCTTCATCTGCG
GCACGTCCGAGATTCAGGCGGCCTTCGACCGCATCCGCACCGAAATCCTCACCGCCGAAC
GCGACCAAACCGCCTTGGCAGGCGAAATCATCGAAATGCGCGAAAAACATGTTCCCCACC
CACCCGCCTGCCGACAGCAACGTCAAATACGCGCGCGGTGGCGTGGCCGATGTCGACTTT
ATCGTCCACTATCTGACACTTGCCCATGCCCGACAGTATCCGCAACTCTTGGACAACTAC
GGTACCATCGCCCTCTTAAACATCTCCGCCGACTGCGGTTTGATTGACAAAACCCTCGCC
GGCCACAGCCGCACCGCCTATCGCTTCTACCGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 578>:

GNMHF24TR gnm_578

AATTCCAGCTCGGTAGCATTACGAATTCGAGCTCGGTACCCAGCACAACCCCTTACATGT
ACCTTGTGTGGTGTCATTGGATCCTAGCAAGAAAGGTATCCATTTGTTCCCCACAAAATC
TTTATCATGCACGATTGAGTAGGATCCGCTGTTATAAGTTTTGCCGTCTGCACCCGTATA
GGTATAGCCGTTTTTCTGTAAAACATCGGCGTAATCATTCTGCACATTTGTGGCTGTACC
ATAGAAACGTGCTTTTCTGATTGGGGCAATGCCATTTTGTTTTTGATTGTTTACCCAATC
TTTTAAGGAAACGCTTGCTGTAATTCCCCCACGACTGTGATTACTGGTATCAACCGACCA
GCCGTTACCCATTTTTTGAACCTCTCGATAAATATCTTGATTCAGTTTTTCTGAATTGGT
TTTGAGTAAATAGCCTTGGCACACTTTATTATTTAATTGGTCGTAACCGACATACATCAG
TTCAGAAACAAGACTTGCACCGAGCCATAAAAAATCTTTTATTTTGTTATTAGAATCAGA
TTTATATTTCCCTGTTGGAGGATTCATGACTGCAATAAGCACACTACCGTTTGTACTAAT
ACGATGTTGTTTTGCTGCGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 579>:

GNMHF55TR gnm_579

GTACTATCCGTACTGTCTGCGGTTCGCCGCCTTGTCCTGATTTTTGCTGATTCACTATAT
CGACATCGCCAAACGAGACTTCGTCATCGCCGTTTCGTCTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 580>:

gnm_580

AATAGATTAAGATATAACTATTAAAATATTTTTAGATAGGATTATCGGAATTAAAGTCTT
TTATACCCAGTCGTCCGATGCGGTTTATAGCGTATTGTTGCTATATGTTCGTTATGTTAT
ATAACGGTTGCATCAAAATTTACGCCCACAGGCTTTCCCGACGGTTTGAAAGTTTGATTT
TCGATAACTTGGAGACTTAAACAATGCCTACCCAATCAAAACATGCGTCTATCAATATCG
GTCTGATACAGGCAAGGGAAGCCCTGATGACCCAATTCAGGCCTATTCTGAATCAGGCGA
ATATTACCGATCAGCAATGGCGGATTATCCGTCTTTTGGCGGAAAACGGCACGCTGGACT
TTCAAGATTTGGCGAATCAGGCGTGCATTTTGCGCCCCAGCCTGACCGGTATCCTGACCC
GCCTTGAAAAAGCGGGTTTGGTTGTCCGCCTGAAACCTTCCAACGACCAACGACGTGTTT
TTCTGAAGCTGACTGCCGAGGGCGAGAAGCTGTATGAGGAAATCGGCGAAGAAGTGGACG
AACGCTACGACGCTATCGAGGAAGTGCTGGGCCGCGAGAAAATGCTGCTGCTTAAAGACC
TGTTGGCAGAACTTGCCAAAATCGAGGATGCGTTGAACTCGTAATACGCCGTAACGCGCG
GAAACGTCCGACCGACGGCTTTTTGAATCAAAACTGCTGCACATGGGGGATGCCTTGTGT
GCAGCATTCTTATATAGGGGACAGTTTAAAGGGGAAAAATGGCGGATTTGCAGAAAAATT
TTCAAACTTCGTTCCGTGATGCGATGGCATCTTGCGCGGCAGGCGTTCATGTCATCACGA
CAGACGGTGCGGCAGGGCGTTACGGCATTACAATGACGGCGGTCGCGCCGGTTACCGACG
AGCCGCCGACCGTGATGCTGTGCATCAACCGGAGTGCGCGAATCATTCCGATCCTGTCGG
AAAACGGCAGCCTCTGCATCAATACGCTGGCGGACGAACATCAGGATGTTGCCGAACATT
TTGCCGGGCTGACCGGCCTGTCGCCCGAAGAGCGGTTTGCCTACCACATCTGGCATCGCG
GCAAAACGGGACAACTTGAAATAGAGGGCGCGTTGGCGCACCTGCACGGGCATATTGTCG
GCAAACATGAAATCGGCACGCATTTTGTGTTTTACGTCAGGCTCGACGAAATCAAAAACT
GCGGGTGCAAACGCCCCGCGCTGCTGTATTTCAGACGGCAGTTTAGATTTTTAGACTGAT
ATTCGGACAGATATATGAAAGCGATGATACTGGCGGCAGGACGCGGCGAGCGTATGCGCC
CTTTGACCGATACCACTCCGAAGCCGCTGCTCGATGTGGCGGGTAAGCCTCTAATCGGTT
GGCACCTATGCCGTCTGAAGCAGGCGGGGTTTACCGAAATCGTCATCAACCACGCTTGGC
TGGGTCGGCAGATAGAAGATGCTTTGGGCGACGGCTCGGCTTATGGCGTGAACATCGCCT
ATTCGCCCGAACCCGCAGGCGGTTTGGAAACGGCAGGCGGCATCGCGCAGGCATTGCCGC
TGTTGGGTGGGCAGCCGTTTTTGGTGGTCAACGGCGACGTGCTGACCGACATCGATTTTA
CCGCCGCGTTTCAGACGGCATCGTCCCTGCCGGAACATATTTCCGCCCATCTGTGGCTGG
TGGAAAATCCGCCGCACAACCCCGACGGCGATTTTTCCCTGCTGCCCGACAGCAGCGTGC
GGCCGGAAGTAAATGGCGGCAACGGATTGACATTCAGCGGCGTGGGTATTTACCGTCCTG
AAATGTTTGACGGAATCGAAGCGGGCAGTGTGGCGAAACTCGCGCCCGTATTGCGTGGCG
AAATGCGGCAAAACCGCGTGAGCGGTCAGAAGCATACGGGCTTGTGGCTGGATGTCGGCA
CGGTATGCCGTCTGAAAGAGGCTCAAGCCCTTGCAGGGGCTTGGAAGTAAAAACCCGGTT
TCAGACGGTATGGCGGATTCGGTTTAACGTTTCAACGCCAGCACCAACACGCCCGCCGTT
ACCAGCCCCAAGCCTATCCATTCCTGCGTGTTCGGGCGTTCGTCCAAGAAAACCACCGCC
ATCAGCGCGACCAAGACCAGGCTGAATTTGTCGATGGGGGCGACTTGCGAGGCGTTGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 581>:

GNMHI03TRB gnm_581

CCCACAGGAAAAACGGTCAATGCTTTCAGCGGGATTTTTTTGGGGAAATTCGTCATGTCG
CTGTCGGATAAGGTTTTTTATTTCTGCTAAATACTGCGCCGCCTCCAACAATCCTTTCCT
CTCCCTCCTCCGGCTGGTGCGCCTTTGTGAATATGCTGTCTGAAACTCGGGGACTCAGAC
GGCATTTTGTTTGCCGCCATCAGTCGGCAAACTGTTTTTTCATCCTCTCTCGGCGTTCTT
GGGACTCAACAGATAAAGTGGCTGTCGGGCGTGCCAGCAGCCGCTTCAAACCGATAGGCT
CTCCCGTATCGGCACAGAATCCATAATCCCCTTCATCAATATTGCGGATGGTCGCCTGTA
TTTTACTGAGAAGTTTTCGTTCCCGATCGCGGGTACGGAGTTCCAATGCGTACTCTTCTT
CCTGTGTGGCACGGTCGGCAGGATCGGAGGCTGATTCGTGTTCTTGGAGATGCCCTGTCG

TAGCGGAAGCATTTTCGATGAGTTCGTCTTGCATTTTTACTAGCAATTCGCGGAAAAAAG
CTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 582>:

GNMHL46TF gnm_582

AAAGCTGGCTTGCCCGACACTCAGACGGTCTCCCCGCCGGCATTTCCACGCCGCAACCCT
ACGGGCGCAAAAGCCCGAATCAACGCCAAAATAACCGCCAGCGTAACCCGCGCCGGCGTA
TTGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 583>:

GNMHN01TF gnm_583

CAAAATACCCTTATAATGAGCTTTATGTAGCCAATCCTAAATCGGGGACGAGTAGTTTGG
TGCGAAAACAAAACGGGTAAACAACCGCCGCCTGCCGCCGTATATGCTGGCGCACGGAGT
CGGCGTGCAGCTGTCCCATACTTACCGCCCAAACCCGGGATGGCAATTTTCGGTCGCGCT
GGAACATTACCGCCAACGCTACCGCGAACAGGATAnGGCGGAATACAATAACGGCAGGCA
AGACGGGTTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 584>:

gnm_584

TAAATTTGTTGTTGTCCGATCCGGTTATTGTTTGTTCTGACTTGTATTTTTTCCGTGAGT
CTCGCCCGTAAGGCGGAAGTGGCGGGCAATGCGTGGCGGAATGTGGGTAAAGGCGGCATT
TTGATTTGTCGGAATGCTTGAGAACCCCTCTCTTTAAAACACCCTTGGATTCGGATTTCA
AGTGCAACACTAGTGTATTAGTGGTTGGAACAGATTCAAGAATAAAACACTTGGCGTTTC
GTAGCCAAGTGTTTTTCTTGGTCGGTGGTTCAACTCATCTTGAACCCTGCGTATCTCCCG
ATCACTGATGTTACGGAAATCGGTTTGTTTGGGGAAGTATTGCCGGATGAGTCCGTTGGT
GTTCTCATTCAGCCCTTTCTCCCAAGAATGGTAAGGACGACAAAAATAAGTCTCCGCTTT
CAATGCTTTGGTTATTTTGGTGTGTTGGTAGAACTCTTTGCCGTTATCCATGGTAATGGT
GTGCACCCTGTCTTTATGTGCCTTTAATGCCCTAACAGCTGCCCGGGCAGTGTCTTCGGC
TTTGAGGCTATCCAATTTGCAGATGATGGTGTAGCGGGTAACGCGTTCGACCAAGGTCAA
TAATGCGCTTTTCTGTCCTTTGCCGACAATGGTGTCGGCTTCCCAATCGCCGATACGGGA
TTTCTGGTCGACGATAGCGGGTCGGTTTTCTATGCCGACACGGTTGGGTACTTTGCCTCT
GGTCCATGTGCTGCCGTAGCGTTTGCGGTAGGGTTTGCTGCATATTCTGAGATGTTGCCA
CAACGTGCTGCCGTTGCTTTTGTCTTGGCGAAGGTAGCGGTAAATGGTGCTGTGGTGGAG
CGTGATCTGGTGGTGTTTGCACAGGTAGGCGCATACTTGTTCGGGACTGAGTTTGCGGCG
GATAAGGGGGTCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 585>:

GNMHT04TF gnm_585

TATTTCGGGCGTGATGGAAATCCAGTCGTCCCGATGGCATGAACACGCCTTTCGCCTTAC
GCGATTTGAGCAGGTCTTCGGTGGCGGCAGAGCCGATCAGGACGCGCCCTTTGCCCACGG
GCTGTTTGGTTGCCTTGCTGTACACGGTTACGGTGTCCATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 586>:

GNMHV42F gnm_586

GCCATTTTGTGGCATTGTTTTGCGTATACCGTGCAAGATAGCCATAGGGGATAACCATTT
TGGTGCCCTGAAAATCAAATGTAACCGTATGTTCAAATCCTGTCATTGGCTCGGGATTGT
TGAAACTGGTTTGTTCATTAAAGGGTCACATGAGGGCATAGTTAAAACACTCCCCATTAA
CCAAATTAAAAGTTGATAAATGGGAATAGCCTATGGGCCCCTAATTTCAAGCCTAGGAAT
TAGGTAAAGGATATATTCCTGGGAGATACCAACTCCTTAGGTAAAAATAATTTACCAACC
TTTGGCACCTAGGGATAAATTCCCATACCTAACTAAACCGGGGGGAAATATATTTATCCC
AGGTTGGAGGGGAACCTTTTTCCCCGGTTCCGGCAGGATAGGTACGGGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 587>:

GNMHY50TR gnm_587

CTGCCGAAGCCGTCCGCCTGAACCGCCTGACACACGGCGCGCTGGACGTAACCGTCGGCC
CCTTGGTCAACCTTTGGGGATTCGGCCCCGACAAATCCGTTACCCGTGAACCGTCGCCGG
AAACAGGAATTGGTCAATAGTCACTTGCGCGCCGTTGGCGAAGTCACCGAATTGAGCTTC
CCAAATGGTCACTTTGTCACGTGCGGAGCAAGCAAAGCCGTACTCGAACGCCATCACGGC
TTCTTCGTTCAAAATGGAGTCGATAACCAGGAACTCGCCCATGCCTTCGCCCATATGGCG
CAGAGGAACATAAGTATCGTCGTCCCAATTTTCGCGGTTTTGATCGTGCAATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 588>:

GNMHY77TR gnm_588

CAATGCATTGGGCGGCGGTGTGAATTACCAAACGCTGCAAGGCCGTGATTTGCTGTTGGA
CGACAGGCAATTCGGCGTGATGATGAAAAACGGTTACAGCACGCGTAACCGTGAATGGAC
AAATACTCTCGGTTTCGACATAAACATTCAATAATAAAACAAGATCACATAATAAAAAAA
ATAATGAAAATATGAAGGATAATAGGAGGGTTAAGTTATTTAATGGGACTTGTTCTCTAT
GAATCATAAGACACCAAATAATCCATAGTACGTTTAGCAnATAAAAACTACCGATGCCTA
ACCTCTTTTTCTCAGAACCTATTATCATTAGAATTCTAAGTGGAAAAATAGAATTAAAAA
ATTTTTTTCTTCGCTCTGTCGTTAATGTATCCTTAGTTTTCCCTAAAAAAAATATAAACA
TATATATACTGCACAATATTGGTAATAAATAAATTAAAAGCGAnAGGTAATTAAATTGAT
AATTGTAAATTATATAATAAACAACATACGAAGAAAAAATATTATAGATGATTTGCTATA
CGAATAAAAAAATATCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 589>:

GNMHY94TR gnm_589

GCGTGTGGGACGGCAAAGCCTACGACGACAACAGCAGTTCCGCGACCGGCGGCAGGGTTC
AAAACATTTACGGCGCCGGCAGGCTGCTACGTTTTCAGCTACGGTTTCTTTTGCACGCAA
AGGTTTGATTGATTGGAAGAAAGGTCTCCCGATTGCCGCAGCATCGTTTGTAGGCGGCGT
GGCCGGTGCATTATCGGTCAGCTTGGTTTCCAAAGATATTCTGCTGGCGGTCGTGCCGGT
TTTGTTGATATTTGTCGCACTGTATTTTGTGTTTTCGCCCAAGCTCGACGGCAGTAAGGA
AGGCAAAGCCAGAATGTCTTTTTTTCTGTTCGGGCTGACGGTCGCACCGCTTTTGGGTTT
TTACGACGGTGTGTTCGGACCGGGTGTCGGCTCGTTTTTTCTGATTGCCTTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 590>:

GNMIA39TR gnm_590

TACCTGCGCGCGTTTTCGCAGGCGGAAGGCAATGTGCGCGGCGGCGAGGTCATCGGTTTT
GTCGGTTCGACCGGGCGTTCGACCGGGCCGCACCTGCATTACGAGGCGCGCATCAACGGG
CAGCCCGTCAATCCTGTTTCGGTCGCATTGCCGACACCGGAATTGACGCAGGCGGACAAG
GCGGCGTTTGCCGCGCAGAAACAGAAGGCGGACGCGCTGCTTGCGCGCTTGCGCGGCATA
CCGGTTACCGTGTCGCAATCGGATTGAAGTTTGAACCGGCGACGAAAACAATGCCGTCTG
ACGACGTGTATGGCATAGCTGACACGCTGAGCCTAAGTGATACCGATACCGAGATTTTTA
TTTACATCTTTATAGGCGAGATCCACAGATTGGATACCCAAATTTTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 591>:

GNMIA50TF gnm_591

CCGCAGGTTCTGGCAAAAACCGAAAAACTTTCCAAGGCGGGCTCGTTGGGCAAATCGGAA
ATGGAACGGTATCAAAATTGGGCATACCGCCGCCAGCTGGCGGATGCTGCCGATGCCGCC
GCTTAGAAAACCTGCCTGAAGCGGATTCCCGACAGCCTCAAAAACGGGGAATTGAGCGTA
TCGGATGCCGAAAAGCACGAACGCTTGGGACTGAATGCCGACGCGGCCAAATGGGTCAAA
CAGCATTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 592>:

GNMIB26TR gnm_592

CTCGGTACCTTCGTAATATTATGAGCTATGAATTCGACCTCGGTACCCTGTGCACTTTCA
AAGTATACAACCAAATAAATTAATAATAAGGCACCAAATACAATAAACAACGCCGTAAGC
ATGCTCATAGAACCTTGGTTCGTCAGTGTAACCAGCTTTGCAATACCCGAAGGAATACCT
GAAGCAATACCTGCCGTAATGATTAAAGAAATACCGTTCCCGATACCCCTTTCAGTAATT
TGCTCCCCAAGCCACATAAGAAACATGGTTCCCGTTACCAAAGAAACTACCGTGGAAACA
TGAAACTCAAATGAACTTGTTACAACAATTCCTTGCTGAAATACGAAAGATGCAACACCT
AGACTTTGAAGAATTGCTAACAAAACAGTACCATACCTAGTATATTTCGTAATTACCTTT
CTACCAGCCTnCCCTTCTTTATTTAAAGCCTTCAATGATGGCAAAATTTCAGAAGCGAGC
TGTACAATAATAGAAGCTGAAATATATGGCATAATTCCTATTGCAAATATACTAAAGCGC
TCTAACGACCCACCGGAAAACATATTCAATATTCCCAGGATGCCGTTTCCAGCGCTTTCG
TATAATTTAGCTAAAGCAACAGCATCAACTCCAGGTACGGGTATATGGGCACCAATTCGA
AAAACAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 593>:

GNMIE10TR gnm_593

AAAAAGTGGTTTCAGACTAAGAATGACGCAATCGGCATTTAGGCCGTCTGAAATCAGAAG
TACCGTTTCCCAATATCGAAAATCCGCCATGCGGCTAAAAATACTTCCTTCATGGAGCAG
AAATGACTTTGTTGAGCTTATTTAATCCGTTGCAAACTGCCGGCATGGAACAAGAGTTTG
ATGCCATTAAAATCGGTATTGCCTCTCCCGATACCATCCGCTCATGGTCTTATGGCGAAG
TCAAAAGACCTGAATCCATCAACTACCGTACGTTCAAACCTGAGCGTGACAGTTTGATCT
GTGCCAAAATCTTTGGCCCGGTCAAAGACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 594>:

GNMIF19TF gnm_594

ACGGCTTGTTCATGGTTCTGCCTTTCAATGATTGTTTTGAAAGCCTGATTTTGACACCAT
AACTTCATGCGCTCAATTCTTAAACAGAACCGCCCCGATTAATACGGGTACGGAAACGCC
GAGATAACAATAAGAATCCATCATTTCAAAACCTTTTTCAGCAGGGACACATAGTAAACG
GACGCGAGGATGCCGAATACTATCCAGCCTGTTTCAAGACCGCTTTGCACGTTGTCCTTC
GGACTGCATTCCGCCAATAAAAGCCTTAGCGGCTGACCGTCCGACATCTTCCACAGGCTG
CCGTTATATTCCGGCCTGACAATCTGTCCGTTTTCTTTGATTCTTGGTGACTACCAAGCT
GAAATACAGGTTTTCAGCCTGGTGCTTCTCAAGACATTTATTTCCGACTTGGTACAACAT
GCCGTCTTACTTCACCACTCTCTTAACGATGGGAACTACAAAAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 595>:

GNMIF67TR gnm_595

AACTTGTATACAAAACCTACAATATTGTCAATATCGGCAATTCCCCCATCAAAATCCGCC
AAATCAAAAATATAAAAAGGGATGTCCTCGATGGGCATATCGCGTATTACTTGTTCAATC
CATAACTTGAATTCATTTAAATCAATAGACTGAGAGAATAAGCATTTAATTGCAAATCCT
AAATCATCACTATCCTCTTTTATGATTTTCCACATAATTATCTTCCTTTGCCGTCAAACG
CTCTTTTAGTTACCCGCTTTATATCAAAAATACCGTCTGAAAGACGAATATCGTTTCAGA
CGGCATTTTGACTGTTTAAAGCGGAGGAAGTTCTACAAACGGCAAGAAATGCTGAAATTT
CTGAAACATTTCAAGATGTATCTCTAACGCTTTTACTGCTTTTTCTTTTGAAATACGCAG
ATCATACACATCTATCCCCCTTAAAAACGCAATGTCGGTCAAGGTATTTTTTTTCGATTT
TGATAGTCTGCACATTGAAACAGAACCTACAGTATTGTCAATATCGGTAATTCCCCCATC
AAAATCCGCCAAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 596>:

GNMIG49TR gnm_596

GGTCTTCGCCCTGGTTAACCTCATTAAGAGTCTCnCAAAATGCTCCGGGCCTACCTAGTC
AATCTAGTCACTCTCCGAGCCTCCGCGCCTGCCAACCGTCGTGCAATCAGCAATACAAAT
ACTAAGCCCTCCTGGGCTGCTATCATTCTAGCATTCAAACTCGCTGCTTTCAGGGGTACA
TCCTTGTTAAAGGAGGTTATTAGTGTCAAGTTCAAATGGGTGTTCCTCGTCAGCGGGGCC
CTCCTCCGAAACAACTGGGCCGTAAACTTAAGGATTCAAGCCCTGGCCTATGGGTTCTTC
ATCAAAGTCAGGAGTGCCGTCAAAATGAGTACCTGGGCTACTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 597>:

gnm_597

CTACTAACCACAATCCCATCCTTCCGTCTATTGGGGGTTCTATTCCAGGGTTATCTTCGA
TTTCTCAGCGTAACCGCGCTTTAGCCAGACGTGGTCCGAAACGACCAGACCAAGCGGCTC
CTCCGAAGTCGCTTCTCTTCCCTCGCTTCAGCGGGCCAAGCGTCCTAAACGGCCAGGGCA
CGGCCGTGGGCGACCGTGTAAACACTCCTACGGCTTAGCTGGGCGTCGTTATCGGCGACC
AACTCCTAACTACCTGCGTCAGTAAAGTTGCAGGCGGCTTTAGTATCTTCTGCATAGTCG
CTTTTAACCTAATAAGATATCTCTTCCGTACCCGCCTCATCGTCAcATCCTGGGCCCGGG
CAATGCTGTCCTCGAACGCACTCTCGTCTATAAAAGTACATCCTTGGTCCTAGTCCGCGG

TAATATGGTCAGCCGTACTTTGGGTAGATGGGGTATCATAGTCTTTCCGGGCGGGCTTCT
CTTCCAACCTAGAGGGGTATAACGCCTCATCATCCTAAGTACCGGAAGTCCTACGGCTAC
GGGCATCCTCCTCTACAACCGCTGCAGCATCCGGCTTCTGTTCTATAGAGTAAATGGTAG
GGTCGTTAGCGGTACCTTCCCTGGCACCCACAGCTTCTTCCGCGTCAACCGAAGCTTGGG
CTTCATTAAGATTATACCTCTCCTGGTGGGCGTCCTGCTATTCAAAGACTGTACGGTCAT
TAAAGACCCCCTGGTTCTCTGCTTGGGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 598>:

GNMIG51TR gnm_598

TCCTGTCCTATCCGTACCGGCACTTGCTTCTTTAACCTCTCCGAGTCAAACACTCCTGGG
CTTTCATCCGCAGCGGCTTCGGCAGGGGTTTCGACGGCTGCTGCTTCGGCATCCTCCTAG
GCATCCATCCACACTTGATTTCGTTCTTCAGGGCTCTCCTCCTAGGTACCTGCTTCCGAA
GCGGGGCTCTCCTCCTCCCTACAAACCCTGGTAAGCTCTTTAACGTCCCAACCCACCTCC
GAAGTTGCTTCTTCACTCCGCTAGGGCTTAGAGGCTTCTTCAACCTCGGCCTCAGCTTTA
AAGTCCTCGGAAGTTCTTTCAAATCTCTCTTCTTCGTAACTACCAGGTTCAGCTCCGTCG
GGGCAAACTCTCGGGGTACCCAAAAGCTCGGTAAATTTAAACTTGCTTTCTTCCCTAAGA
TCCTAGTCTTCTGGGCTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 599>:

GNMIG53TR gnm_599

AAGCACGGGGCTTGCCGGTTAAAACGGTGTAAGGTTAGGAAGAGCCGGGGCGTCGGTCCT
AAAAGCGCGCTGCGCAGGCAGATCAAAATCAACGGGTACTCAACTGAAAAGCCTGAAAGG
TCTCTATAGTGAAGATAGTAGACTGATCAGAATAAGTTCGAGAAAAAACTGCGTACCGGG
TATGGCGGTATCCAGAAGACCAAAGAAACGACTCCGGGCACGAGGTCCGATGCGAATTCG
AGAAATTGGATTAGGGTCTGGTAAAACATTCAAGATCCTCATGGGATTCCTACTATTCTC
ATTCTCGGGCTTGGGCTCGGCGTTCTTAAAAGAATGGGTAGTGCTGGTGATGGTCTTAGT
AAATAGGGTGAAAGCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 600>:

gnm_600

TCATTGCTACCTAGCTAACTGGCCTATGCCTTCGTCGGGGATAATCGTCGCATGCCcAAA
ATTTGCCTCGGATTTAATGGAAGTCTTGGCTACTATAGTTTTTGGGTCTTACTGCCTCGA
AGACTCAACACCTTTCTATTCAGTCTTTGGTTTAATACGGCTCTACTTGCAAGCCTCAAG
CCTCTTGCAGCTCCGAGGGGTGTTGGATCTAGTGCGCTCCGAGGGTATATTCTAGAGCCG
CTATGTGTACGATAAGTGCTGTGCAGCTTCTAGACGGAACTTACTTTTCATATTTCTTAA
TATTTCTGCATCTCTTTGCATCCCTGGCGTGCTGTTTCCTAGTTCTGGATACATAACTGC
GCATTCGTGTTCCCACTGCTAGCGCGTACACCGGGGTATTCGTAGTATTCAAATCTCTCA
CATCAAACCCTTGTCGCAGATCTTGAGGGGGAGACCGGAAGCGTAGCAGAAGAAGCCGGG
TGGACATCGTACCGCCTATGGGGTCCCCAAAGCGCTCTCCAATTTTGAGGGCGGGAGGGG
GTGAAAGATAGGTAAaGAGCGAGTTCTGTAGCACATAAGAATTTGcAGAAAGCTgGTAAG
AAGAGGCAAAAACCAACACGAGCACGAGGTAATAGGGTTCGCGTCTTTGGAGGTTTGGGG
GGCTCCTAGGGGCTTGGTTGCGGGGGCTGTATTTACAAATCTGCCGCAAACGAAAACAGC
TGCAACAGTACGGCCCGCTATCACGCCCGGATAGTCAATGCCAGTGTAATACTCCGAACA
GTTGGCACACGGGGTCTTTTCAACAATCGGGGTTAAGCAGCACTATGGGGAAACGGTGCT
GAGCGCCTCTCCGAGGAGTTTCGAGGCATCTTCCCTAACACTAATGTCCGTCTTCTAGAT
ATGAGGTGTACAAGCATGGCCGGCACGATGTATTACGTATACAAAACTAGTGGATCCAGC

CTAGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 601>:

GNMIG55TR gnm_601

TCGTTACTAACTTGGTCGTCGCTTACTCCTCTACGGGGGTTACTCAAAAAGTTAAAGCTA
CTCTCTATAGCTTCTGCGGCGTCCCTACTACCCGGGTCCAGATCGTTCTTAAAGTCTTCT
CGATTACGTACAGGGTCTTCCTACAGCCCTCCGAGGTTTGCTTCTTTAGGGCGAATTCCG
GTGCTTTTCATATTAGCATCAATAACCTCTACGGCGCCTGCAAAGGCGCCAGGGTCCGCC
CAAATCTCTTTCGGTTCTTCGTCTCTAGTTCTCATAACCGCAGCTTTCAAGTCAACTCCG
GCAGCTATAGGGTTACAGCTAAATTCCCTGCGGGGCTTGCTCTAAGCACTCTCTGCGTCC
AATACTTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 602>:

GNMIG56TR gnm_602

GGTGCGTTCCATGGTAAAACTTCATAGAATCTAGAGGGGTTAAATGCAAGGGGGTTACTC
GGGTGGGAAGATCTGGCCGCGTCCCCCTAGGGGTTTTGGGGGGCGTCCGGGTTAGCTCCT
CCAACGTCAAGCTCGGTCCTTTGCGAACTGCTCCTCCCTGCGAGATTCCTCTAATTCCTA
CCCGACCGCTGGCCAAACCGAGCAGGGTGCTGGGCCTGGTCTCGTCTCGGGCGCTTAGTT
AGGTCGGGACCGTTGTACAATTGGCCCAATATCTCCACACACTTACAAACTGCAGCACGA
ACCTAGACGCGGGTAGCCCGGTTTGAATCGAACGGAGGGGGCTGTCCTAGGGGCGCTTCT
GGTGCTCCTAACTGTGGTGATCCAGGGGCTGGCCGACCGCCGCCTAAGCCTCTGCACCGG
TAACAGCTGCTGTGGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 603>:

GNMIG57TR gnm_603

GCGGCGGCTTCGATAATATTACTCAATTCTTGGTCAGAAGCCGGGGCTTTCGAGACCGCG
GCGGCTTCGCTACGGCTACGGCCTGCTTCTTGGGGGGCAGTACCTTCTTTCGCTTGCAAA
GCGTCGGATCCAACCACGACCTAAGAGTCCAGCGATTGGGTCGAGTCCTCCGAAACGTCT
TCAATCCAAACCATCTCCCGTTCGGTAGCCTTGGATTTCTAGTTACTACGTTTTACTTCA
ATGGCTGCGTTATCTTCATGCTATTCAGCGTTGCACTTCGTCGTACTAATCGCCGATCTA
CCGGCGTCGGCTGTAGTTATCCCGAGGGTGCTACTACTACACTTCTTCGCTTCCGGATCA
GCCCGCTCCAAAACCAGCGGTTCCTAAGGGCAAGTCCCGGGCGATCCCGCAAATCCATCT
GGCTGGTAGACCCGCTTCATACCTATTATAGCCTACGAAGGTTCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 604>:

GNMIG58TR gnm_604

GTCCGATTTCCCTGGGGGGCCGGGGGCTATTGCTCCAGGTCAGGATCGTACCCGAAAGTC
GCTTGGCGCTTAATTAGGGCCTCGGCCGAACGGGGGGGGTGGTCCTAGTAAAGATGGTCA
GAAAGGTTCTATTCAGCAGGGGCTCGGGGGGTGTCCCCGTCCGGATCTTCCTCACGGGTC
TTAGAAATGCTTTGGTCCTAGTCATCGCGAGTATGGGTATATTTAACGGCTCCCTCAATA
GAGTTAGTATTAGGGGCTGGGTCGGTACCTCTAATAAATTCGCAGTCATCAATATCTACC
GTACGGCCGTCTTCAGCCTCTCCGCAAGTACTCTCCTCCTGATCCAACACGTTATCTTCA
TCCATACATTGAAAAGTATGGTCGTCTGCTTCATTGCGGTCTCCAGGGGCCTAATCCTGG

TGGTCAGCGACGGTCCTAGTCGTTACTTTCCGGCGCTCTTCTAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 605>:

GNMIG59TR gnm_605

GTTAGTTCGGGCTTCAGGGTCCCAAGGGTTAAAAGTGCGGCCTCGGCTCTTACGGGTAAT
GCTAAAGCTCTGCTCATTCGAGTCCGGACTTCCTGCGGGGTCCTAAGCTTCGGCAGCTGC
TTCAGAAGGGTCCTCCCCAGGGGGGGAGGCACGGGCCTCGAGGCGGTAAATGCTCTTAAT
ACCCGCTCCTCTATCCTGGTCACCGTCCGAGGCTTCTTTCGCGTGGTGGTTATCATTCGT
GTGAGAGCCCAAATCAATACATTCTTTCGCGTGGTAAGCCGTACAATATCGTTCTCAGAT
ACTTTGGTCATTAAGATGGGGATTCGCTTCGTCCCGACGGGTAATATGGCTACCATGGCG
CTCATTCGATTCCGTGCAGATACCGTCCTCCTAAGTCCGGTGGTGATTCTTCTAGTCCGG
GCTCTTAATACCAAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 606>:

GNMIG61TR gnm_606

CGGTGGCTAATAGACCACCGACGCCTCCTCCACCGACGTGAAAACGGTCACCCTCATGGT
GGTGGTCGTTAATCTCGGCTCGTTCATGCTCTTCTTCCTCCTAACCGGCGACTTCTTGGT
GGTCATCAGCAGGGGTCCTTAGACTAGGTTCCCCCGCGTCGACACTTACAACGTAGTCCT
CACCAACACCTCGGCGGTCCTGGGCCGCAGCTTCCCGGTCGGCTTCCGGGGCCTCCAGGG
GGGCTTGAGTAGCTTCGGCAGCAACCGCCATGGCTTAATCGGCCCCAGCTTCTACAGCAA
CATCTCTAACCCGGGAGTGAGCTTGGCCTCCGCCCCAAGTAGCCTATCATACCTGGCCCG
AAGGGGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 607>:

GNMIG62TR gnm_607

CGAAGGCTTGGGCCGATCAACATAAAACATCGAGGAAGACAATTGAGCCTGCTGATCCTC
GGCATACGGTCAGGAGCTCTTGGAGCGTTCAGCATACTACAGGTTTTCAACGTAAACAAG
GCAGCCAAACTTAAAGCGAGACCTGCCTATCGTTCGGGGCCAAGGCCTAGAAACAACAAT
GCAAGAAAGGAACGGTGGGCCAGGCCAAGAAGGGGCGGGGAAAGACGGCTATAGGGCAGG
CCAATCCTCCACAGGCGCGCCGTAAGAAACCGCAGCAGGGTACAAAGCCCCTGCAGGGGG
TTTGGAGGTCTAAGGTAAAAGATAAACAACAAAGCCAGCTTAAAAACTGCCAACACAGGG
GAGTCGGCAAACGTCAGCTTAAGTTTCATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 608>:

GNMIG63TR gnm_608

GTTTTTCGTCTTGGCTCTTCGAACATTCACGCTAACTTGTAGTTTATTCTCTCTGAGGAC
CAAAAAAGCTCAGCGTCAACTTTGCGGTCCATGGTTTGGTTGTCATTGTAGGGATTAACT
TCTTCAAAGTTATTCTTAAAAGGGTAATTTCTCTCAAAGTTACTGGGTTATCTGCGGCGT
TAGTAAAATTCCTCCGGCGTTTCAACATGCTCTTGAGGCGTTCTAAGTCCTCTATTATAA
GATTAAGTGCCCTAAACACTACAGCAGCCAGCGCCAGCAAAGTCGTCAAAAACTTAAAAG
TCTTAAAGTCTCTCCTCTAACTTCCGGGGCGAGCCCTCTCCTCGCCTCTCCTTTGAAATT
TAAACATCGCCACATCCGGGTTCTAAGTAGTAAACTTCGTAACCCTGGCCCGAGCCAAAT
TGCTCCTATCGGTCCGAGCTGTCAACAACGAGCCTCCAACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 609>:

GNMIG64TR gnm_609

TAGGGAAATACGAAAATTCCTTCCGGTGAAAAATCCGGGGCTTGCAGGGGCTTGAAAGCT
TCTTCAGCCTCCTCCTAAGCTCGGTTCTTTTGGTCTCTCTTTAAGTTCTTGCTTCTCTTG
TTATTAGTATCTCTATCATCCCGGTCCGGTTTCAACTCTCTAATATCATATCTTTGGGCT
TGGTCACGGTGGGGGTTATGGTTCTTAATATCGTGGGTCAACTGGTTGCTTAGGCTGCAT
TGGGGGCCAGCTCTATCGGAAGTAGTCGGGCTCCAGATCCTGCTTAAGTCCTCTAAATCC
GCCTCACCGTGGCCGGTACTCGGGCTACGCTTCTTAAAATGGCTACTCTCCAAAGAAGCT
TCGTCTTCCGCGGCGCGGGCGTTAGATATAAAAGAGCCTTCTGCCTGGTCTTCTTCAGCA
CTTACTTCTCGGCCGGTACTGCGGTTAATATAGACTCCGTCTTCATGGGCCTCTCCTACA
AAGTTATCTTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 610>:

GNMIG65TR gnm_610

GTCCATCCCAAAAGGTGGTCTTGTTCTTTCTTACTAGTAGAGTCCGTACATTCGAGGGCA
GCCTGGTCGACCTAGAATTGAGCTTGGCCTGCTTCCATCAATATCTCTGTCAGCGTCCCA
GCAGCTCTTTGGGTACTTTCAAAAACAGCTTCAGAGGCCTCCTCCGCCGCGCTCCTAGTA
GATCTATAGACCGCGGCCTCTGCAACGGCTCTCATCGCTTCCGTACTAATAAGGTCTTTA
TAGTCTTCAGCGTGGGCCGCTGCTTCTGCCAACACTTCTACCTAATCTTTAGTTCGTTCG
TCCGAAGCTGGGTCGTTTTCACTAAATTCCTAGTTCTTACTCTTGCTGTTCTTCTAGTCA
TCTATACCGATCATATCTCTTTTAGATGGTGCACTGCTGGCTCTCGTTAAGCGGGTCCTC
CTCTCGAAGGGGTAAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 611>:

GNMIG66TR gnm_611

AAGTTAAAAGTGGTAATAATTGGCCGGTGCTTAAAAGAGTTAATACGGGAAGTTCTAATC
TATCCATATTCGTTCTTGTAGTAAATACTCCACTGTTCCAAGCCAAACTTACATCGGTTG
TACCGGTTCTTATATTTTGGGTATCTACAGAGCTTAAGCTTGTGGTAGCCCAACCACTCC
CTAAAATTAGTGGTTCCTACTCATGGGGAAGCCGTCCGAAAATTGGCGTTCTTCTCGCCT
GCATTACTAAAAACATTATGGCGCCTCCTCCGGTGGTTAATATGGGTAATAAATGCGGCC
TCCTGGCCATAGGTAGATGGGTTCTACCAGCAAGTACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 612>:

GNMIG67TR gnm_612

TTCATACGCAGATTCGCGGTCCTAAATGTCGCGGCTCTACTCGCCAAAGCGGTCTGCCAG
GCTAATACCCTGGGACAACCCAGATACTTGATCGGTAACTAACGATTCTTTAAGCTACCC
CTAGGCTTGCTGGGCGGAATCTTGCTAGTCATCTAACTCCGGGGCAAATTTACGGCTCTC
CTATCCAGCCTCCTAATCGAGTTATTTCCCTTGCTATTAAGTATGATGATAGTAGAGGCA
CATAGTCGCGTAGTTGGGCTGGGGAATACGAGTGTAAAAGAAAAATCAGATGGGGGCGGG
TGGGGGGAGGGGCAAGCATGCTCGGGGCAGCCGGGGAACAAAACCTTCGTGCAAACGTTA
GAGTGCTTCAGGTAGGTCAAGTAAAGCGGGTACATCCTTGTAAGTCGGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 613>:

gnm_613

AATGTAAAAAATTCCAGGTTTCTGCAAAATACCAAGTTCCACGTGTACCCGGCACAAAAA
TTCGGGGGTTTCAGAACGGGTTCGATTCATACATTGACAGGTTTCTTGCTCTCCCAAGCA
TCAGAGGGTACGGGGCGCGGGGGCAGGGGGGGCGGGGGCTCCCAAGCATCAGAAAGCATC
AGAGAACGAGGGGGAGGGGAAGTTCTTAGAGGAGACGCCAGGAATAAAAATTACGATCCT
CGGCTTGTCTTGGACTGTAAACACAATCAGGTGTGAACCGCTGCAACTATTAACGCAAGT
CCGGTTCGATGAGGGCTATGCGTGCTCCTGGTCGTCTTGGCGTTGCAGGGGGCGGAAGTT
ATGAGAATCTATTTCCTTAAATACTAGAAACCTATCCCTACTTTCAGGGCCAGGCATTGA
GGGTTTTCATATTTGTCTTCnTACTGTCGGTCTTAACCTAACAGATCTTGGCCGATTTGG
GCTTGCTCTCGTCGAACTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 614>:

gnm_614

AAAATGGGCAGTGTGGGCTTCGGGATTATCAGCCTAGTCGTGGGGAAGGTCCTACGATTG
GCCAAATCCTTGGCGCGCTGCAGTCGAGGGCAAAACCGCTACTACTAGGGTCCTACCCCG
TACCGTCGGCATCCTCATCATGGTCAGCGTCGCCCTGGGGGTAAGGGCATCTAAGCTCAC
CTCCTTCAGCTCCTTCAAATTCGGAAGTCTGATGGGAAGCTGTAGCGAGAGATGTTAACT
GCGCAAATCAAAGGGTAAGATTGCGAGGCGAGGTGCAAAGAAACGGATAGGTTATGAGGA
TAGTGAATGATGGCTTCTGGAGGGCAGAGACAGCAAGGGGATGCGGGCTATACAGGGTTA
AAATGGGGATTAGTAAGAGGGCAAGGGAAAAGGGGAAGCAGCAGGGGCAGCAGGCTTAAT
TGCTGGCGCTCGAACGACTAAAGAGTTAAGAGGGGTAGGATTGGGGGCGTAAAGAACGGG
CACGGGAACATGGCTGCGAGAACATACAGAACTCGCCAGCGGGGGGCATGGAAGAAGAGG
GTGCGCCAGAATGGGCTGCGGGGTTGACGGCGTGTTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 615>:

GNMIG70TR gnm_615

GTCCGATTTTCCCCCAAAACGACGGCCTCAGGGTCTACCTGGTCGTTAACGTGGGCCTCA
CGAGTAGTCTCTTTTGCGGCTTCACTCACCTGGTCAGCAGCGTCTCCTCTCCTAGACGGG
TCAGTACCTCCGTTAGACTCCTGGTGATGGTCGTCACAGATCTGGCTCATCGCTTCAGCA
CCAGCCTGGCCCTAAGGGTCGTCGCGGTCCTTGCCTGCAATAAAGTTAGTCTTATTTAAG
TCCTACCGCGTCGCTTCGTCCTCAGCATTACCAGGGTACATCCTTTTCTTATTAGCGTCA
GCTTCATTATCTTCAATATCTCCTCGGGCCTCCTCCTCATCAACCTCGGCTTTCCATTCC
GCAGGGGAGTCATGGCCCCCAGCCGGGTTCGCTTCGACCTCACCCTCCTAATTCTTGCTC
TCTTCTTCATCCGCAACATGGGCCGGATCTTCCTCATCGAGCTCCTCCTAACGATCAGCG
TCGGCTCGGTCTTGGGGCCGCGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 616>:

GNMIG71TR gnm_616

CCTGAAAGATGTAGTAGTCATTCAGACGCAATTACGATTCGCACCCAAACCTCAAAACAA
TTTTCCCACCCCACGCAAATACAATTGCAAATTGCAGCTAGATAAATACGCCCACTCTTT
GACGCCGCGCATGCTCGATTGGGGCGAGAAGCCCGTAATCATGGATAGGTACGACTCACT

GGAATTCAAGACCCCACCTCGACCCAAATTCACGTGGAAGACCCTCAGCACGGCTGCCCG
CGACATTTCAAATTCACGCAGTGAGTTAGCCTTACCGGCAACCGCTTCGAATACCGATGC
CACCATTCAATTTATCTAGCGGCTAAAAGCTCCCCAGCACTGCGCCAGACCCCGCAAACC
TGAAATAAATGTCCACAGACTGCCGGTGTTTTCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 617>:

GNMIG73TR gnm_617

GGGCGCTCCAGGTAAAAGCAAATTTCCGGGGGGTCCATAGAGGGGGTGCATTCGAGGAAC
TAGGCTTGAGTTTCTGGGCGCCGAGACGCCAGGAATAAAAAGTACCATAACCTCATCAAC
TTCTACATACGATCCTAACCTCACCTAATCTGCGATGCCGGGGGCGGAAGTTATGAGAGA
TCCTACCCACCTCCCTGCCGGGCGGGCCTGCCTCCTCCTCAGCGCTCCCGGCGCCTGCTG
CTCTCTTTGCATGCTTAAATGCTTTTAATACTCGGAGCTCCTGGGCGGGAGGATATGCGG
GGGGCTTCTACGAGGCCGCGGTCCCTCCTAGCAGGTCAGCGAGGCCGAGTTTCGTTGTCG
TAAGTGCAGCAGCGGCCTCCGCGGTCCTCCTACTTGCGGGCTTCCCTACATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 618>:

GNMIG74TF gnm_618

GGCTTGGGCTGATAGAGGGTGTGCAATGCGCCGAGTGCTGCATAACAGGCTGGAATGCTG
TTGACAATGACGCGGAAACCGTAAATATCCATAACCTCGGCAAAGCGCAGCTTTTTCGCC
ATCATTTTCTGATGGATGCCGTACAGGTTTTTTTCCCTGCCTTTGATTTTGGCCTCTATA
TTCGCGCCTACCAGCCGCTGGCCGAATGCGCGCAAGACTTTGCCGACAACGTACTGCCGG
TTCTTCCGGCTCTTGTACATCGCTCTTTTTAAAGTCTCGTAACGGATGGGATGCAAGTTA
TGGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 619>:

GNMIG75TR gnm_619

TCCCTGGGCCTATCGTACCTAGGCGAGGCCTCCGCTGCAGGGGGTGCGGCAAACAGAAAA
AATCTCTTAATCTTGCATTTTGGGTTTGCGGTACATCCTAGAGCTTCGTGCAACTGGGGG
CCACTAAATTCTAAGCATTCGTTTTTAGAGGTTCTCTCCTTTTCGTAGCCTACATAGGCT
TCTTGGTTCTTGCATTCAACACCAAAACTAATCTTGCTGTCAGTTTCTTCGACCTCCTAG
TAGTTGTGGTTCTTCTAATGGTTAAAATAGTCAATAATGTAAAATATGTATTCTTCAAAG
TAAACTTTGCTCTATATTTCAATGTAGGAGTCTTCGTCAGTATCAAACTCCTACCCGCTA
ATCGGGTAGTCAAACTGGTATTTCTTGCTTTCTAAGCACGATCTGTCCTCACAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 620>:

GNMIG76TR gnm_620

AAACTACTTAATTAGCAAAGTAGTCTGTACCCTCAACCTGATATTACTAACTAAAATGCG
TACTATCTACGTCAGGGCTGCAAAACTATGATTCTTCTGATTTTGCGAAAACACCGAGAA
AAGTTCTGGGTATTTGTACTTTCTCTTTGATCTCCCTGGGGGGCGTACGGGTTCATGGGC
TCCCACGCAGGCTTTCTTTACGTCTCTTAACTTGCAGGGGCAGGGGTTAATGTTCTTATA
GACTTATTAAATGTACTCCTCGCGGTTAATACTCGCCTTCGTGGCTTCGTGGGTCCTCCA
GGTCCCTCGATTCCTCTCATTAGTAAGCTACTACCTCCCCGTCCTAGCATGCTTGGGGTC
ATAATTGGAAGGGTTCGACTTCAACCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 621>:

GNMIG78TR gnm_621

GTCCGATTCCAAAGGGATTCTATCTTGCTTAGAATCCGCTCCGTCGCGATATTCATCAAC
TTAGCTTTCTATACCACTGCTGTGAGATACTTGAGTTTCGTCCTACTCCTCTATGCTTGG
AGGGTTATCCTCACTCGTTACATTTTCGCTTCCAAGAGCAAAGTATCCCTAAGTTGCTTA
CTAGGCAGGGGGTTCACCTCCTACCTAAAAGGATCAGCAAAACGGGTAACTGCGAGTACC
CGAAAAATCAAAGTTCTTTTCGTACCCGGGGAATTCTTCCTAATCATTTTAATCCTACCT
GCATTCTCGATTAAGGTCTCTGGGGGTTCTGTAACTTGGGCCAAGATCCTATCTGGGAGA
TCCTCCGAGGTCATGAGCGTTCTAATCCATCCTCACTCTACCTCAAAGCCTACGGGACAA
TTTCAAAATTTCAGGATTTGGAGGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 622>:

GNMIG79TR gnm_622

TTTCTTGCGTTTGTCGTCGGCTTCTTCTTGCTATTAGTCGTCAACTTTGTAATTGTAATT
GTCCTGATGCCAGATGATGCATTCTTTGGGGTCGTGCTTAATTTAATGATATTCTTATTA
AAACTTCTCGTTCTTACTCTAGTCTTCCTATTCGATGTCCTCGAAGTCGTCCTGTCTGTC
GTTTTGATGGTATTTTCGTGCGTCAAATTAAATGTGCCAGGCGTAGTCTTACGATTATTT
GTGGGGGTAGCATTTCTATTGATAAAGATACGGGTGTTATTGGTGGTAGGATTAGGTAAC
TTTGCATTACTTGTGTTTGTCTACCGGGCCATCGAGATCTTCATAGCTTTCGATCTAGTA
GTCATATTAGGAGTCCTCTAGTTTGGCTTGCCCTCCTACGTACTGATTGCGCCTTACATG
CCAAAGATTGTATCTGTCAATCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 623>:

GNMIG80TR gnm_623

GGGTCTTAGTTCGGGGTTATTAACGTGGTCCCAGTCCTCATTAAAACGGGCTCCAGCCCT
ACTATCTTTGCTACGATCGTCGGGGTAGTCATTATAAAAAGTGGCGTCCGAGCCGTCCCT
ACCTGCGTCAACTCCTCTACAGACTCTACTATTATGGTATACCTCATAGTCCTCTCCAGC
TGCATTAATGTCAACGTTAGAAGTCTATTCATGGCCGGCGTGGTCGACCATAGGCTTCTG
GGCATGGCCCTCTCGGTGGTTGTAGTCTCCCGGGCGACTCTGGTCGAAATTATGGCCGCT
CCTAAAGTCGTGCTTACGGTTCTTAAGGTCGTTCTCGTTAAAGTAGTCATTCTGCTTAAT
AAGGTCGTGGGCGTTAGTCATGTCAGTACTCGGGTCTCTATTCTCGTCCAGATGGTTACT
AAGATGGTCTTCGTCGTGGTTCCGGGCATTACAAGTTACATCAGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 624>:

GNMIG81TR gnm_624

ATCCACCTCCCTCACTTCTGCCTCAGCCGGGGCCTAAATGTCACTCTCGTCCCTCAGGGT
AGCTCCATCTACTTCGCATGTTCAATTTTCCCCATCTGCCTTCCTCTAGGCCGTTTCGCG
AGCTTTAAATTCACGGGCCCCGTCTTGAACTCCATAAAAATTCCTTTTAAACCGGCGTTC
CCTTCCTCCTGAGCCGGGGGATCTTCGTCATCTCGGTGGGTGCGAGCCAGGGCCCCAGCG
ATTAAATACCCGGAGACCTGGGTCTATTCAGGGGAGCGGTCTTGACAGGCCGGGCTCGTA
GTCTTTCATTGATGCTAATCCCAGAAATTGGCCGTACGGGCTTCGTCCGCGACACCAATA
CCTCGGCTAGCACCAGCGGAAGCAACATAGCGGCATTGGCGCTCATCCnCCACATAGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 625>:

GNMIG83TR gnm_625

CCTCCTCTCCTCGGCGGGGCGTACTTACTTTATGGGCGTGAGGCTTAGGAACAAAGGCCA
ACAACACTGGCTTCGTGTGGGCGGGCATTCCACTACGAATCAGAGGAGGATCATTCACCT
CCCCCAATCGAGTCGGCTATACCTCTCGAACCGAGGCCAACACCTCCACTGGAGTACCTA
GGGCCTAAAGCAACAATAAAATCACTGCCACCCGCTCGGTAAATGTCCCTGCAGGGGGAT
CCGGCTCTTCGATTGCTGCTTCAAATGCAGGCGGGTCGGCTCTTCGATGCTATTCAAAAG
CTTGGGCAGCGGCCAACACAAGGATATCTAGATGGGCATTCACGTCTGTAAATCTCCCCA
TCGGCAGCTCAGGAGTCGGCTTCAATTCGGGTAACACTTCCCTAGGCGGATTCAATTTGG
CGAGCATCAATTCGGGGGTCGCAGGCGTTTCAACCCTAGGTAGGGCACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 626>:

GNMIG85TR gnm_626

CTGGGCAGGTGCAAAAGATCATGCTATCCTCGGCCCAACTGCCAGCGGCAATACTTTCAA
TAGACATACGCTTAACATCATTAGGAAACTTCAGCTTCTTAAGATTATTTAACTTGCTGC
TAATTAGATCCGTACTACGCTCTTTCGTACGTTCCTAATAAGCTTCATTACTCGAGAACG
TACACTTAAATTTGCAATAGAAATCATCCATACTATAAATCTTTCTCTTGGCTTTCTTGG
GGGCGTCTTCATTATAAGATGCCAAATAAGTCCTAATACCCCAGATAGATACCTCCGAAA
ATGTAACTTTAAATTACTCACAAAAAATCTTAAAACAGGCCTCGGCACTCGAGTTTAACA
TACTGGCAAATCCTGCGTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 627>:

GNMIG86TR gnm_627

AACAGAGAGGGTTACACACATCCTGGCTAAGTATACACCTAGGTCGGTTCGGGATAAGAG
CTCAGCATCGATGATTGCCGCTAAGAGGATGACTTAAAGGATTAAAGCTGAAGAAGCTAT
GAGAATTACTGACGGACGAAGAGGTAGGATCGGGTCACAGAGTGGGTGTAGGTGGGCTAC
AAATGAAAGGACTAATTAGAGGGTTAAAGGTGCTGAATCTCCAGCACTCGCTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 628>:

GNMIG87TR gnm_628

TCTTCTGGGTCTCCGAGGCCAACCGAAAGGTCAGACCCGCCTGCTTGGGCGTTCTCGAGG
TTCCAAGCCGCCATATGGCCATCCCAACCCGGATTCGGGTCTCTCCCCTAATTGGCAGAT
TCTTGGTCCCTACTTTCCGTACCCTCAGGGTCGTAAACTTGGGCATATGGCTCCGAAGTA
CTGCGGTGGGGGTATGGGGCGGCAGCAGATCTACCTGCGAGCTCGGGGTTACTTACTTGG
GCCTCGGGGTCTCTATTACGATCTTATCCGTGGGTAAAAGAGTCATTGTCATTAGGGGCT
CTCGCCATAAATTCCTTACCAACCTAAGCAGAATGAATCTTAATATTCTCTTCGAATTGC
TTATCTCTCCGTGCACTACTTCGGGGGGAAGCGTGGGGGTACAAGAGGTCGCGGTTACTC
TCTGGGTCCGTCGAGAATCCAGGAAGTTCTCTCCAGACTTTAGGnGCGTTAGAAGTGTAG
TCTATCTCGTCAGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 629>:

gnm_629

GGGTCTTCGTCCGTAATATAGGCTTCCGTCCCGGCCGTCCCTCTCAATACTAAAGTCTCT
TCAGGGGCTTTCTGGGCACGGTCCCTACCGGGGTTACGCTCGTAAACGTTATCTCCGAGG
GCAACAACTTCCTGGTCTTGGTCGCGGTCATCGGGGTCAGGGGCCCTGGCATCCAAATCA
ACGCTGCTTTGGTCATAGCTATCGTCCTAGACTTCAGCGAGGTCCCTCTCACTCCTAATA
AAAGCCTGGGGGTGCTCCAGCGCTTCGTGCAAACCGGCAAGGGCTTCTTCAACACCGGCA
AAACAGACAAAAATCTCGGGGCTCAATTCGGCCGTACTCTCAGAGGCGTCCTCCGTACAG
GTTACTGCGAGGTCTCCGGCGACAACCTCCGTACTCTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 630>:

GNMIG90TR gnm_630

TGGGTTTCAGATCTGGCTCTTCGACTGGATCTTGGTCGGCTGCCTAAACTTCTGCGGCAC
CTCTATCTTTTACGGGGGAGTTAACTTGGGCACTACCGTGGCCCTAGTCATCCGGGGCCG
CAGCAGTCTCTTCGGCCGTCTCTTCAGATTCCTACACCTCCAATTTCTCTTGGGGGCGAT
CCAAATCATGGGAATTAAACTCCCAGTCATAAGAAAGTGCTTGGCCGCCGAAACCAGGGC
CTGCGTCCAAGACCTCGGCGTTATTGGCAGCGTCATACACGGGGCATTTAGCTTCTCTAC
TCGTACCAAGGCCCATCGCTTCGGCTTCGTCTTCAAAGTCAGCCACCCTGTGGTGGGGAA
CACGGTCTCTAGAGTCCGGCTCCGCTGGGTCGTGGGGGCGGCTACTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 631>:

GNMIG91TR gnm_631

TGATCGGATTCTGTACCGCTTGTGAGTACCTCCAAGGCCCTGGCCGTCAATGTGGTAAAA
AAGATCAGCGTTCGAGCTCTTGCGGTTATCCATCTCCTCCTACTCGACCGTCTCCTCCTC
CTTTGGTGGATTAACTTAGGTGTCTTTAATTCCTCCCTACTCGCCTCCCATAAAGTTCTA
GTATTCAATAACCTCAACGTAGGATTCTTAAAGATCTTCATTTTCCTAAGCTTTAATCTA
ATGGCCAAATTGGCCGGCTTCTCATGGGCCAACTTACTAGTTGCTTCCAGAAAAAACATT
TGCAGCTTAAATGCAGCTACCTAGGCGTCCATCGAGTCGGTAAAGATGATTCTCAATGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 632>:

GNMIG92TR gnm_632

GCTGGTTGCGGATGGTGGGGATTATGCAAATTAAGCGGTATTAGTTACGCTCATACAATG
AGTACTAGGAAGCATCCGAATCAGCGGCGGCCGGAGGCTTGCTGGTGTGGCGCCTCCCGG
GGGAAATAACACAGAATTACTATTGATTTTGAAAACGCGAGTAGGCTAAATAGAAGCAGG
GGCCATAGAGGAAGATGGTTCGTTGCAGGGGTGCGGTTGACAAAGGGGTCGAGGGGAACA
TAAAAGGTAGGAGAACTAGTGGTAGTGGGCAACAAGAAAGGCAAAAGTACGGGGGTAACC
AAACAGTTGTGGGTAAGGGTACAGATACTGATGGTCAGGGGGGCCAGGGGCATAGTAAAT
ACTGCAGGTAAAAGGCTGCCAACAGAATGATGGCGTACGCGGGTAGAACTGGGGACACAA
TGAAGTAACGTACTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 633>:

GNMIG94TR gnm_633

GCTTCTTTGTAAGTACnATGGTTTTCGGAACCGGTAGCTTCTTCGGCACTAATACTCGCT

GCGTCCGCTCGGGCCCATCAGACGCTACCGGCACGCTCTTCGGCGAATCCGAGGTCCCTT
CCTTCGAGATCCTCCTAGGGCTCAGAGCCTCCCGGGGGGTGAGCCTGCTGGTAGGCCGGG
GCTGCGAATGTCCTCTCCTGGGCTTTCGGGCTCTCGGGGTATTTAACGAGTTCTTCAACC
GAAGTACCGTCCCCTCCCTAGGGGTCCTGGCCCTCATGGCGGTCCTCCTTGCGGCTTGCG
GCGGCTTCAGAAAGGCTTACTGGCGGCACGGGGGTAGAGGGAATCCCAAAAAGGTCTCTC
CCGGCTTCTTCCCGGGCACGAGCAACGACGTCCGTTCATCCGGCTCCGCTCCCGGCAGCG
AGGTCGAAATTCTTCTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 634>:

GNMIG95TR gnm_634

TCAACTCCGGACAAAGCTACACGCTCCAGCTCCTAAGTACCCCCACGAGCGCGGGTAGTC
GAGGGTTGGGGGTTGGGGGCCGGCAAATCCGACAAGTACATGGGAGGTCCCACCCCGCGA
ATTTGGGTTAAAGTACCCTAATATAGACCCTCCGCTGGGAGCGCGTCGCAAATAGTAGGC
GGTTGGAGTCCGGGCGGGAGTACCTGGTCCATCCCCTCCTCTCTCTTCTCTTTCAGCGGC
TCTTCTCGCTTCCAATCTTCGAGCTTCGTGCAAACTTGCGTTGGGTACATCCTAGGCTCG
TAGGGTAGTTTGGGGGGCACTACCGTGGTAGAATTCTTCGCAGGCCTAATAGGGCGAGAA
TTGCTGGGGGGTACTGTGGCAACCCTCCTGGTCCTATCTTCGTTCTGCTCCTACGACAAC
GGCATTCCTCGCGTGGGCGTCCCTCTCCTGGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 635>:

GNMIH01TR gnm_635

AACCTCTAGGTACGTCCGACATTAAACTCCAGGTCTGCAGGCCGCGCAGTGTGAGGTGTA
GGGCGGCGGTAGGGGCCGGAGCGGTGAAGCAAGTGAGAGCTACCCCTCCTCCGGGCGTAA
GAGTGGTGCGCTGCTAGTAGTAAATTCGTCAGGCCAAAACGCTGCTTTGCTTCTGCTATG
GGGGTACATCATTGGAAATTCGGGTGAGGAAAAGACTCTAGGTTATGGGGTACATCCTAG
TTGGAGCGGGTTTCATTAAGTTCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 636>:

GNMIH02TR gnm_636

CCTACATCTCACGGCTTCAGGCGGGCCGTCAGCCTCAAACCGGTGGGGGTTAATAACTTC
CGGGGCCGCTTGCTCCTTTGCTGCTGGGTTCTTGGTTGCTTCTAATGTAGGATCTTCTGG
GGCATCCTACCTCCTAGGGAGTGCGCTGGGCAACCTCGACAAAACTGCTGCTATAACGGG
TGCTATTCATAGCATCTCTAGCTGTCGAAGCCTCCTAAGTCCTAGTCCTAGCATGCGGGG
CCGCGATCCAAGTCGGCTTCGTAGTCGTAAATGTCATCATGGACCTAGCTGCTGCAGCTC
TTCATTATAAATTGGGGTCTCTACGGGCCCCTAAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 637>:

GNMIH03TR gnm_637

TTAAAAACTTTCGCACCTAACTGTAAATTCTAACAAAGCTACCTCTCGCTGGGATTAGGG
TTACTGGACCTCCTAGTCCTCCTATACCTGGTATCTTAAGGCGCAATCTGTTTCAACGTC
TTAGTGGCCCTCGCGCTAAAGTTTAAAGTAAATTGCGGGCCAATCCTAAACACGGGCTTT
TCTCTTGCAGCGCTTTCGGCACTTGCGTTGGTCATTATTCGCGTAGTCATCCGCTCCTTC
CGAGCTCTGGTATTCGAGGTGGCCTCAACTGCGGCAAACATGGTTCTTCTAGGATTGGAG

AAAAGAAAATAGTTTGTGTAACTACGTGCAGAAGCGGGCCAGGCTGGCACAGGCAGCACG
AAGCCGCGGAAAGGTAATTGGGAAAGGAAGAATGGAGCCCAAAGGGTGGAGAGACACCTA
GGACGGCTTAATAACAGCACTAAAAGAAGCCATACGGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 638>:

GNMIH05TR gnm_638

TTTCCGTCGAACGTAGCTTCTTTCTTGCATTCGCTCAGCTATTAGAGGCCAAATGCATAC
CTCGAGTCCGGGCCCTAGAGGCACAGGTCCGAGTCATCGCTACTGGGGTCCTGGTAATGG
GATTTCTTGCTTCGGGCTTCGTCCTCCGGGGCCGTACTATAATCGGCGGGGGAAAAACAA
TTGCGGGCGGGGTCCGAGCCGAAATCCTGGTCGTCTGCTTCATGGTCGATAATAATTGCT
TGGTGGCCAACAATATCACAGCTCCTCAAGTAAAAGCCAGCGTCTGCTGGGTTCCAAATG
CGGGTCTCTTTGGTCTCTGTAAAGCGGTGGGTAACGAGTTTGCGGTCGTAAATTCTTGCT
TCGTTAACTTCGTTAGGCGCGAGGCTCCGGTCGTCCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 639>:

GNMIH06TR gnm_639

GGCAAAGTAGCCGCTCTATTCGCCTGCTTCACAAATGCGGCTACTTCGGTCAGCTTCGTG
CAATCAGGCGTTCGAGCCGGGGATACTTAGGTTACTATCTTCATTCTCGTGGTCACGTTC
CCTCGCGTCGATACCAAAATTACTCGCGTGCTCTTCGTCTGCAGCCTCCTGGTGGTCATA
GCATCTCGCCGTCAGCCCCTCGGGGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 640>:

GNMIH07TR gnm_640

TCCGTTTCCTGGCGGTAGCAAAACTTTATCTGATCCCGGGTGAGGTGTGTTGCTGAACCG
GGGGCTTCGACCGTCCAGATCAAGAGTTCATTGATAGGGTAAAGGGATAGTGTGGTTAAG
GGTCTAAATGGCCGCGTTAATGTGGGTATCTTTGCGGGCTTCAAAGGCAGCCGTACGTCC
CTCCAGGTCTTGGGAGTGCTCCTAGTCAGAAGTATCTTCCGCTTCAAGGGCCTCGCCTCC
ATCGGGGCGTTCAGATCCAAATTGCTCGACCGGGCCCCTGCGGGCGACGTCGTCAGCAGG
GGAGTGGGCCAGCTCCTCCGGGCCTCTCGCGGCTTCGAATGCGTCGACCTACCTGGGGGC
ATCCATACCGACGCTAAGATGGTCCCGCCCAGTGTGGTCATCAACTCCCACATCAGCTTC
AAGGCCCGGGCGTTCGCTACTAGCTCGGCGGCTCTTAGCCGCAGCGACACCTCGGGCTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 641>:

GNMIH08TR gnm_641

ATCGCACTCCGGGGAGTTAGGATTCTAGTAATTAGGTTAACCAAGGACTACATTCGTACA
ATTATAGGAATCCTAGGCACAAGGGGTCCAAGTACCTAAAATCTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 642>:

GNMIH12TR gnm_642

AGCCAGCCAGGTCGTAGGTTTCTCTACCTCCCAAGTGACCGTGCGTACGCTCCAAATGGA
GTCCAGAAAATCCGGGTGCCACTAGGAGGTCGATGCCAGGTTTATGGGTCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 643>:

GNMIH13TR gnm_643

GCTTCGGGATTCTCTTGAGGGACAACTCCCTCCATAAAATCTTGCTTCTTCGGCTTCCAT
ATACTTGTCCTCAAGATATTCTATGTCGGCTTCTTCCTCTAGGCAAGGGGCTTCATCTCC
GTAAATGTCGCTCTTGCTCTCTTCAATGCAGCTACGTTCTTCGATTCTAACCTCGCCCTC
TAAGCCTCCTCAGGTGTCCTGGCCAACAGCACTACCGGAAACTTAGGGCGCTTCAACTTC
ATTAAACTCAACGCCGTCAACTTCGTAATGGTAATGTATTTCCATAAAGTCGCAGGCTAC
CTAATCTTCTTCTTCGTCCATCTCTTAGCCTGCTTCTTAAACAACTTCCGCTTAAATCTC
TTTGCTTCTGCTTTCGCGTTCGATTGGTTTAGGCTACTTGCAGCAAATTTCATCGTCATA
AATGGCTTCAACTTTGCAAAATTCGGCAAAGTAACTACTTCTAAAGTTCTCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 644>:

GNMIH14TR gnm_644

CCGGCTACCAAAACCCGGGCAATTCGCTAGTTCTGGTCAGCGTGCGCAGCCGCGGGGTTG
GCAGGGGCGGCGGCCTAGGAGGCGGCAGGAGTCGTTTGAGCTGCCGTCCCTACGGTAATA
AGGGCCTAGTCTCTTGCTTTTAAGGAAGTCCGGGGAGCTACAATATCTGCTGCTTCGCCG
GCCAAAAAGATAAGTCCTCCAGAGCGCCAAAGTCAGTACCTAGTGAGGAGGCTCGCCTGG
TACCTCTAGATCCCACACGGCACTAATCTCTGGAACCTCGCCGGGTTTCGGGGCAGCACC
TACCCTCCTAAGAGGCGTACTACGAGTCCTAATTGCTGCTGCTGGTTTGGCTGCTGGGAT
GAGGGTTGCTGCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 645>:

GNMIH15TR gnm_645

CGCGGCTCTTAATGCTTCCATAGTCGGGCTTCACCTCGGCGGGGGCGGTATGAACATTAA
ACTTGCTTGCGTAGCGATTCTTCTCTTCTTCAGGGCCAACTTGGGTACATCCTAGGCCGT
CAGTACTTACTTCCTCCTCACGGGCATTCAATTCGTCCCTGCTCCAGACTCTCCTAGAGT
ACCAGCTTCTGCTAATAACCGCCTCCTGGGGGTGCTCTGCATCATCCCCGGGGGAAACAA
ATGCTTCATAGGCTTAACTATCGGACCAGGACCAACGGGATGCGGCTCCAGGCTATATAT
GCTAGTCCAAATAGTGGGTCTTCGTCCCATTTGCTTTCTCTGTACGGTCCTAATCCTCCT
TCTTAAAGTCTTCGAATTTAAACGTCCTATAAAAGCTCGGGGGAAGCTAAAGATCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 646>:

GNMIH16TR gnm_646

GAGGTAGGTAAATTCCTCTAATATAGGGTTAGTATCTTGGAGGGCACTTGCGTTGAGATT
CAGCTTCTGGTCCCTAAACGTTCAATATCTCGTAAGATTCTTCGAGGCCTGTACCAGGGT
CCTAAAATTTCTACGCTCCAAGCCCCTCGAAATCTTCAAAGTAAACCGGGTATCTGCGTT
TGTTATCTGCTTCTTCTTAAACCTTTCTAATGCCAACTCTAATATACTCTCCCTAGTAAA
GGACCTGATTCTGCCGAATTCTTCCAGAGCTTCAAACCCCGTGCATCAGCTTATTCGCTC

TGCGTAAATTTGGGGGTGCTTCTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 647>:

GNMIH18TR gnm_647

AAGATCTTCATCTTTCAATAGTTCTCGGGCTCACTCCTACAGCCTCGGCCATAGGTAAAT
TCAAGTACCTCTCCACGCTCCATGCATTCGTTGTCATGCTTCAATATAACAAATTGATTC
TAGTTCTCTTTCTTAGATTCGATGTCTACCTCCACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 648>:

GNMIH23TR gnm_648

TGATTGCAAAAATTCTGGCTTTAGGGTTGGCAGGCCAAAAAGTCCCTGGGGGTAAGCTCT
CCTTCCGAAAGAGAGTCGAAGCTACCGGCTTCTTAACTGGGAGTGCTTTCTCGAGTTTAA
GGCTGCGCTTCATGACACGGGCCTTTCAGAATTAGGGCCTCCAGGCGTTGCAAATAGCGT
TGATAGTACTTTTAACAGAAACTGCAGCCTTGCCGGGAAAGGCTTACTGTAAAGTCGGCT
CTTAAGATTAGTTTTCTGTCCTACATAAATGTAGGGTATTCGTCAACTTATCGATCCGCG
CCGCGTTCTTCAGACTTACGGGCGTGGCTCAGCGGACTCCCCGGGGCGGTTAGGCGCTAG
CAATCCAGCGCGTAGACCTAAAGACTGCGGGATTCAGGGCAAAACCACGAGGGATAGTAC
TTCAGCTTCGTTAAAGGGGTAGATCGCATCGCTTGGTCTTAAACTGGTGGTACTCTCTCT
ACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 649>:

GNMIH25TR gnm_649

TACCAGGAGGGTAATAGTACTGGAACCCCAGCATAAGCCCATAGAGGGAGGTCCAAACTT
CGCAGGGTTCTTGGGTACATCCTGCCCATCCTAAGCATGCATAATTGAAGATACAGACTA
ATCTTCAGAGGCATGCGGAGTCCTCGGGGGCGGCTTCTGGATCCTAGTAGCACCAAGATA
CAAAATCTTAAAAACTCTCTGCAGTAGCCTTCAATCGAATAAGCTTCTTTGGTAACAACT
TAGAATTAGACGAAATCCCTGCCTAAAAATACATCCAGCTAGATGTCTTATTGAGATAGT
CCAGATTTTCCATAACAACAAACATTCGCAACTTAGATGCATACGGGGAAATTACTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 650>:

GNMIH26TR gnm_650

AAGGAGTGGTGGTACTTGCCGGGATGTCAGGAGGTTAAGCACGAAGAAGTCTTCCAGGGG
TGTTGGGGGGAAGAGACGAAAAGGTAGCAAAAGAGCCAGGGGTACCAAGAGCGTGGGGAG
TGGTAGAACTTGTCGAGGTACCAGACCTACAGCCTAGGGGGGGAATTTTCGAACGAACTA
AGTGGGTGTTTAGACGTCGCTGGAAATGATATCTAGTGGGGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 651>:

GNMIH27TR gnm_651

TTTCTTCCGGGCTCTCCTCCTGACTAAAGTAGCATTCCTCACGCTGGGCCCAAGCCTCCT

CCTGGCCAGCCCTCGTCCCGGGGTCGAATTGGCTCTCCGTACGCTCCAAATCACGGTTCG
ATTTAAATTGAAACACCAAAAGCCAGGATGTAGAAGGCGACGTGGGTGGGTACATTGGAG
CGTCGTGCAAATCCCAAATTCAGACCATCCCCAAAGAGACGCCAGGAATAAAAAGTACCA
TAACCTCCTCACTTCTACATACGATACAGACGATCCAATTCAGGTATGGCCGCTGGTACT
ATTGGACACAAGTCGGTGTGGGCACTGAACCTCACCTAATCTTCGATGCCGGGGGCGGAA
GTTATGAGAAATGCTTTCTTGCGCACGCCTCCACTACCCAAGTGCGCGCTCCAGGAGCTT
AGAAAATCCGCGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 652>:

GNMIH28TR gnm_652

AAATTCTATAGGTAAACTTATACAAAGGCTCCGGAAGTAAGTTCTAGTAGGTGTGGTTCC
TACAAACGAGTTCATAGTATTCCTAATAGTATTCTAATACATAATCTTAAACGAAAGGGC
CCGGATAAAAATCCTCAGCACCGGGCTCGCTCTGTCCATGAGATTCCGGATCGGATTGCT
AATATACCTAATGGAGTTCAGAACCTGGGAAATACTGGGCCACTCATATACAGGAATCCT
AAGCGCAAGTGCAATTACAAGCTCCTAGGCCGTGGCCCTAAACTGCTAGGAGCCCCCTAA
AGGTAACCCTAACCAAATACTTCGCGTACTTGAAATTAATAGACTAAAGCCTAGGGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 653>:

GNMIH29TR gnm_653

CCCGCGGCGATCTGGGGTTCAACTCGGTACTTATCAACCTCCTGGCCGTCCTAATTTTCG
TTCTCTTCAGAGGACTAATTGCTTTCGCTTGCTTCAATCTGGTTAACCCTCGCAACCTTC
GTGACAAAAGGGGCCGCCGTCCTCCTACGGGCCCTCTCCATCGGGGCAATAAAATTCGAT
TCTACCTAGGCCTGGGCTGCTTTCATAAGCTCTCGGTCTACAGCGATTATTAAGTCCCAT
CCCCTAACTGCCCTACTGGCTACCTCCAGGATCATCTCTGCCCTCGCAAACTTCAAGCTC
GCCAAGGGAGGATTCATAGCCGCGTTCTTGATTCTCAGCTTCAGGGCCGCAGGGCTTCGC
TTCCTCTCTGCATCAGGCTTCACGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 654>:

GNMIH32TR gnm_654

GTCGTGCGAAATCCCTGAATCCTGCTTTACTCCTACGTTCAGCGTTCAAAGTACTTGCGT
CCCTACCATCGTCGTCTCCAACTCCTAAACTGCTCTCCCATCCTTGGGCTGCTTTCAGAT
CTTCCGAGTTCATCCTGTCAGCACCGGGGCTGCTGCAAGTGCCTCCTCCAACGGGGCTGG
CGCTACTAAGTGCTTCTGCAGCCTGGTCATCTGCGGGGCTACGGCTACTACTCGCAAGGT
CCCTCCTAGTACGGTAAAAAGTATCCCCTCCGAGGGCAGGGGCCTCTCTACCTCACATAC
CCTCCGTCTTACGATCTCCTCCGCCGTCGCCTCTAGCCCTGCTTTTCGAACTCTCAACGT
CAACGGGCTTGCTCCTGTCCTCCTGGTTCTGAGTACCTTCTGGGTAGATACTAGGGTAGA
CTCGGCTAAAATCGAGGTGGTTCATTACGGGGTTCCGGTCATTTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 655>:

GNMIH35TR gnm_655

GATTTAGCTCTTCGTTTTCTCTGTACCAAAGGTCACGAGTAATGCCGTCAAGGGTACTCT
ATCCTCCAGGTCTAGGGCAACGCTAATGGGTTTGAATACAAAAACCTTACGAGCTCCGAC
TAGATCCTTGGGTTGCTAACAAACAGGCTTAGCACTTATATCTAATGCATTTAACCTCAA

TCAGATTATAGTTAAGATTGCGTTTCTTATGCTATTCGTATTCAAAGTCTTAAATACTGG
AATTCTTATAAAACTATTAGTACTTCTCAAAGTACATCCTATTCTATTTAACCCTACTAA
GATACTCTTCAAAAACTTTACTCCTAAACTTACATGAGTAAATACTCGAACTCATAATTT
GAGAACTGTCAGGTCTACTGCAGGTACTATAGTCATTTTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 656>:

gnm_656

TAGGGCGAGTTCTCGGGAGTCCAGGGTGCGGGGGGTATGAGAAGACTTCCGGGCTTCGGC
TACCTCCGGGGAGCCCAAACCTCCAGCAGCCGATCCTCGGGCAGAAGTCCTAGTACTCCC
CTCACTCCGGGTTAAGATCCTCGCAACCTGGGCCAATGGGGCTCTCTCTAACAGCGTCAA
ATCTATTGGCGCCGAGTCAAACCGCTCCACAGCCTCTCTCTGGTCCAAATCCTGGAGCTC
ACACATCACCGAGAGCTTGGCCTCCATGGTCGCTAGTTCAGTCCTAAGAGTCCCCTCGCT
AGGCTTACTCCGATCGGGAAAATCCAGCCCAGCTGCCGTCTTTTTGCGGTCAGCTCCATC
TGGCTTGTGCGTCTCTATCCTGGTCCTCATAAGTGCTGCATCTCGCTCCTCCAGCGCCGG
GGCAACCAAACtCCTCCTGCCGCTGCAGCCGCTCTCAAATCTTCTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 657>:

GNMIH38TR gnm_657

ATTTCTGCGAATATTCGTACTGTTCTTAAATCTTGGAGTCCCTCCATCTGGCTTCAGTGC
TAGTAAAAGATCTATGATTGCTTGGATTCGGGTCCTCATAAGTAATCTCGGAGTCAATGC
TAGATCTCCTACCCCCGCAAAATCTTGCGTCAACGCGTCCTCCAAAGTTGTAAAATTTGG
AAAGTCTCTCTTCAACAAATTGGCCCTCCTCAGGGCCGTCCTCGCCACAGGATTCGTTTT
CTTGAGGGTCATCAGCTTTAATCTTACCTTATTAAACAGCTTCTCTCGTGCCTCCCGGGC
AATCGAGGCTCTTGCTGTAATCAATTTATTCTTCTTCTAAGTCTTGATCCCTGCCATAAT
CTTGTCCAACCTATCGGGCGTCGCGATCATGGAACCCCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 658>:

GNMIH42TR gnm_658

TGCTTGGGCAGGGCTGTTCTTATGGCCCTGGGCTTCGTAAAACTCGCGCCCGCGCCGTCG
TCAGGGCGGGCGTTAAGGTCGTAAGTACTTCCGTAAAAGCCCTAAGTACGGCGGGCATCT
GGTTCATGGCTCGGGTAGCAATTGAAGCTACATCCGGGGGTGTCCTACGTTCTAGAGTTA
TTACGGCCGGCTCCTCCGGAATTAGACTGGTTAATATGGTGGTTATGGTCCGCCCTCAGC
GCCGACCCTAGCCGGGCTGAATTGGTGGGTGCACGTAGTAGTGCGCTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 659>:

gnm_659

AAAAATGCGGTAATGGTGGTGGTGCCATGGTGGCCGTGCTGGTCATTAATTCGTTGCATC
ACAAGGGGATGGATATTAATAATGCCATTCTGATCAATTGGGCAGTAATAATCGATTACA
TTATGACAAAATGAGAGCGCCGTAGGTATTACTCGGCGGTGGTGCTGCAGCCCTAGTCCG
GGCTGCAGCGCCCCGGAGGTTGGTTGCATTAAATATCACCAACGCCAACGCTTCGTGCAA
CATTTCAGGGTTAAAAGTTAATGCATTTTGGTCTAAAAACTAGGCCCTAAAGATCGTGGT
TGCATCCGTCTTTGCGGGCGCCGATAACGAGGCTGCCCTCCATGCATTCTCTATGATATT
CGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 660>:

GNMIH46TR gnm_660

TGGGTTCCCCAAGGCTTCACTGCTGGCTTGAGAGCTACAATCAATGCTGCAGCTAGAGCA
GCAAACACCAAACCAGCTGCGGGTTCAGCAGGAAGTACCCGCGTCCATCTCCGCTCCTCA
GCTTTAGTCCTCGCAGCAGCTATCAATATCAACAATATCATTCTCTTAGTCTATCCTGTA
AACACTGCATTCATAAGGGTTAATTCTTACAACCCCTGGCTCCAACTGCCATCTCCTGGG
ATCTCTGCCTCAAACAAGCCGCCACCAGGGCAATCATTATAGGTAGGGCCAAAATCAGAG
GGGCGGGCTTTCTCGATGTCAGGTGGAACCCAGACCACGTCCAGAGGGTTAGCTTCGTGC
AAAGATCCGGGGTTCGGGTACATCCTAGGGTTCGCGGGTACTTTACTAAGGTCCCTCCAA
GCTCCTAGATCCCAAGTCCCGGCAGGGGCGCTGCTAGCCTCTCCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 661>:

gnm_661

CAGGAAACGCACTTGCTAATAAAAATCTCAACAACTCCATCACGGAGATCAAAGTAACAA
CAAAAAATGCATTTAACCTCATCAAGGCTAATTTCCTCGATAAAAAAGCCGCAAACGGGG
GAGTCTTAGTAAATCTTCGTGCTAACTTCCTCATAAAAGCCTCCCTTCTTATCCGAATAA
ACCTCGCCGAGTCTCTAGGTGCTTACGCCAACATAGCTTGGATAGCCTCCATsCTTCGTT
CCGACATAGTCGATGCAATTTAGGCCCTCGATTGGTTTCGAGCAATAGTCCGTACAGGGG
CCAACGGTATGGCCCGGCCCTACTAAAACCGAGTCCTCACTCGAGTCATTCGAGCTGCAA
ACACTAATCTAAACTACCTCACGGCTCTCACGGTGGCAATACATGTGATAATCCTACTCC
GAACAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 662>:

gnm_662

GCGTCACCTTAGGCCGAGTTACGGTCCTAACCGACCTGGGAATTGGCCTCACTACCTGTG
GCGTCGCTCCATCCGGGGTCGTCACTTACAATATCCTACCTCGCGGCTGTACATCCCTCT
CCGGCATCCTAACGGCGATTTACGTGGGAATTCCACTCGTGGGCCGGGCCTATAGATCTT
ACAGCGTCTTCCTGGTAATCGTCGCTGCTAGGACCATGGGGTTGCTTCTAGTAAGCATGG
CCATGGCCTTCGTCCTGGTCAGGGTAAACCGGGGCGGCGCTCACTTCGAGGTGGTTCTTC
TGGCTCTTAGTACGTTCATCGGCCCTATACGATTTAGCCGGCGTCCCGTAAAGCTCTTCG
CGGTCTCCTACAACGTCAGCCGGCTGGCCGAAATCTTCCTAGACTGCTGCGTCCCAAGTA
TCCTGGGCCGCGTGGCTCTGGGCTTCGGGGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 663>:

GNMIH50TR gnm_663

GCAAAAATTGGTAATAAACTCCTCCAAATAGAGGGGCCCCAGCTTCTGGATTTTTTGCGC
CCCTACTACTTCCTATCCGGCCTATCCTCGGGTCCTCTACTACGTTTGCTGGCTTCAACG
CGGGCTTCTTAGTCCTCTCCTCCTACCGATCCATAAATTCCGTTAGCGCAAAGAGCTTCT
CTTCCATCAGCTTAAAAGTTGCTGCCCTAACCTAATTCGTTGCTTTCAACATAATCCTAA
TCCTCGCCGAAGCCGCAGGCATCATAGTATTCGGGGCAGATATCTCTAAAAACAACTTCT
CGCCCCTCAACGCCTCAACTCCTGCCTATATCAAAGTTCTAAGTTCTGTATCTTTAGTTA
CTGGGTTCTTCAATCCTGCCTCGCCAAAGGCCCTCCCAACTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 664>:

GNMIH51TR gnm_664

GTTCTAAATTATTGTTAATTGTATAAATTTGGGAAAAGTTCTGAGAAGTCTTTCTAAGGG
CAGGGAACTAGGTGGATGGCAAAGCCTATAAAAAAGTTAAGTTCGTAAACCTAGCAATCA
TTGGTGCTTGCGTAACTAAAAACAGGGTAAATGCATCCTGCTCGGGGCCTACCTCGGGCA
ACAGATCCGTCCTTCTGCCATATCTCTGGATCCGGAGTACTAAAGTTCGATCTTCAGGCG
TCACTAAATTCCGGGCGGGCGTTCTGTTAGTCCTCACCAAATTCAGCGCCGTCCTAACCA
AAGCGATATTGGTGTTCAGGTAAATCAGGTGGGCACGGGCACTGGCTCGTTGCAACCGAT
CCTGGTTGCTTGCTCGCTCCGCCGTCAATATAATTGGTGCGATAAGACTTTCTAAAACTG
CGCCGAGAGCCCCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 665>:

GNMIH52TR gnm_665

AATGTGGCTGAGGCTAGCTGCTAGGCTATACGGGCAGGGCATACTGGCGACAAAGTAAGG
TTCAGGAGGATTAATAAGTCAGGCACAAAAGAAAAAGAAGGGATTGCAACTGACAAGTAC
GGGGCCCTAGTTACCGGAGGCGAGGAGGCAAGAATGGAAAAAGAGACACAAAGGAATTAG
CTAAGGTGTTGATGTAGCCTGCAAAATTTAACTTCAGATTCAATGGGTTGTTCAGAACTG
CCAATAGTGCGGAATCAGCGTTCCTGGCCAACGCCAACACCTGCAAATGCTTCTCTTGCT
CGGACTCCCTCGCCGCAGGCTTCAACGCAAAGTTCGGCAAAAATAGTTCCAGCTACATTC
GGGCAATCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 666>:

GNMIH53TR gnm_666

GCTTTGTTGTGCAACTTCATTATGCTATTTAGTACTGCTGGCTTTCAGATAGAGGCGCTA
TGGGTCTTACAGATCTCCTTAGACGTTCTATTCACAGACAATGCAGCCGGTCCAGCAAAA
GATTAACGGAAACGAGGTGCTTACGACAAATTGTCTGTGTTCAAAACATGTGCTGTTTTA
GTAAAGTTCTCAATCCGCGACTCCTGCTTCAGGCATAAGGGAGTGGCCCTAATTAATCCT
CGGGGCGGTTAGGCACTGGCAAGCCTCCGGCTCGACAAAAATGCTGCGGGCTTGAAAAGA
AAGCCCCTCCTGCTCGTTAAATGCCTACGAAGCAGGGGTAGATCACAGCGATTGCCAACA
AGAGTCTTCTTCGGGGTGGATCCGCTACCTAGATGGGCCTCTAGCTTCCGTTTCTCGGGC
GAACATAATGGCTTCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 667>:

GNMIH54TR gnm_667

GTCCGATTTCGCGAGTCCGGTTCGATGAGTGCGATGCGTGCTCCTGGTCGTCTTGGCGTT
GCAGGGGGCGGAAGTTATGAGATGATTGGTATAGGGTGGAAGAAAGGGGAGCACGAATTA
GATGGTGGCCGTCGTTAAAAGTCCGGGTCGTTGGCTGCTCCTACCGGTCCTTAGTCCGGG
CCCTCTCAGGGCCAAAGGGTTGGAGATCCTACCTATTAATCCTCCTCTCCGCGGGGGTTG
CTGCGGGGGCAGAGGGATGAGTGGCCGTCTTTGATTTCGGTACTGGCTTCAAGGGGAGAG
TCCCTCTATCCCTCCGAAAAAGCTTCGTCAGGTTGGTACCCGGTGCTCGTTCCCTATCTA
AGCCTGGGCCCGTCCCTCGAGCCCTCGGCTTCTTGCTGGGAGGGGCTGCGTCGGGGATAC
TCGCCGTCCTCCAGCCCGAGGAAAGGAGCGTCGTTATACGGGGATCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 668>:

GNMIH55TR gnm_668

AGGGCAAGGGTTTGACGGAGTGACCATACTTTTGAGGTGGGAATGAAGGGTGAACTGGCA
AAGGAGCACATTAGAGCTGATGATTAGGGAGTAATGGGGGAGGGGCGGGAGGCCCACGCG
GGGGATGAGCATTGTAGCGCAATTGCGGAAGCAATAAATTACGGGTAATAAGTTTCACTT
AAGCATACCAGGGCAATAGATCCGGATAGGGCAGGGGTACCCTATTAAAAGCCGGAGTTT
TGAGCCTGAGTGGCTATCCGAGATCTAACATAAGCTTATAAAAGCCTGGGTTCATATCTT
ACCCTACCAGCTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 669>:

GNMIH56TR gnm_669

TTTTGTGTTTGCGCCCGACACCTCCTAAATTCTACCGGGCTGGCCCTCCTAGGGGTAATC
GCTACCTGCTGGGGTCAGGGGGGCTACTGGTCCGGGGACTGGTCTACAAATGTGCTGGGT
GGTCAAACTGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 670>:

GNMIH58TR gnm_670

AAAACTTTGGCGAAATCTTGCGGGGCATTGGTCGTATCCTAATCCCAGTCATCAGAGCTC
TTATCAAAAACCGGTGCTTCGTAGTGGTTATCGGCAGGGTAAGGCTTCGGTTTCTACTCG
GGCACTTCGCTAGTGTCTCTTTTCTCTTAAATGGTAGAGAAGTCCCAAGTCTTCTTGGTA
GACTGCATCTTCTCAGCATGGTCTTCGTTCAAGTCAGGGTTGTCTGGCAACTCGAATTTT
AAATTGGCATTCGCGTCGTCGTTGCTCGTGTTAGTGGCCTCAGGGTGCTCGAGAATGGGC
GTAGCCCGGGATGTTGCTTGCGAGAAAGCCTAGCTGCAAGGGAAACTTTGGGGGTAACCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 671>:

GNMIH59TR gnm_671

CGCGTCGTGCAAACACCTCCGTCGGGCCTCCGTAGGCTGGGTTAGGTCGGCCAACAGTCT
AGGCGCAACTACGGGCGTAAAAAAGAGGTCTAATATCTCTTTTGCTTCTCTGCCCTCCTC
CGTACCCAACTCCAGGGCTTTCACTGCTTTTGCAAAAGTCGCCCTACCCTAGGAAACTTC
CCGCACCTCCAAAGGCTTCTTAAGTTCACCCTCACAACGCTCCGGGGCTCGCGCCTCCAC
TCCATGCTTCCGTTCAGATTCCAATAAGTATACACAAAAATCGTGCAAGCCTAAGCAATA
AAGGCAAGGGTTGGTGCTGCTGGCTCCGCGCTCGGGTTCTGGGGGTTCGGCGCAGCTACT
AAAATTACGATACCTGTAAGGGTATACTGGGCCAGAACCTCAAAAAATACCAAAGTCTTG
G

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 672>:

GNMIH60TR gnm_672

TGCGAGGCGTCTTCGGGCTTCGCTTGGGCCTACTCCGCGGTCCCTGCTGCCGTCCAACGG
GTGGAAAGCGTCGTAGGGATTCTCGCTTCCGTAGCAGCCAATCTCCTGCCATCCGAGGGC

TTAAACAAGAGGGAAATTGCTTCTGCATTCAACACCAAACTTCGATTGGTAATTGCAGCA
AATTCCAGGTTGCTGCGTTTAAAGCTTCTCGCTTCAGATCTCTCGCCTACAATAGTTTCA
GGCGTACTGATTGCTGTTGCTCTCCTAAAGCTCTGGTTGCTTAAATTAAAAGTACTAGAT
CGGAGTTTGGAAGTCACTGCTGCATTCCTCGAGGCGGTCCCTGCCGTCTTGCCTAAGATC
CTGCCGTGGCCAGGATCTGCCCTCCAGGCCGATGCATTCTCGGGTGCAGGGTTTGCATTG
GGAGTCAGCTCCATATTTAAGATTGCTTTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 673>:

GNMIH62TR gnm_673

CCTTAAAGTCTTCCGATAAGCTCCTACTGGTCTCTAAAGTCTCTACATCCTTAAGCTTTC
TAACAGGCCTCCTGGGGCTTGCGGTCCTACGCACGGTTATGGGCGTGGGCAACTCCTGCG
CTACAGGCGTCCTGCTGAAAACGAAAGTTTTTAGGGGGCTCCGGCGATTCGTGCGGGGCC
GAGACTGCTTGGCTGCACTTAAACGCGGATTCGGATTCACAGGGGGAGGGATAGTGGGAG
ACCTCACAGTTAAACAGGCCAGATTTAAGGTGGTAACCCGATCTAAGGTAGGACTGGCCC
AAAGCTTCGTTGCAGGCACAGTTGCTTAGATATCTACCCGGGCCAAGCTCCTCGTGCTTC
TCGGCAGCAGCGGCGTCTTCGGGCAAGTTAAGGTCCTTAAACTTCTCGACTTCGCGGGCC
TAAAACAATTGTGCTTAGGGCCGCGGCGTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 674>:

GNMIH63TR gnm_674

TATTTAGAACCCGAGAGCGGGCCAAAAAGCAGGTGAAAATGGGACCTCGCTTCATACGAA
ACGTGGGCAGGGTACAACGTACAGAGACTCCGAAGGCGCTTAGGCCCGAATCTGTGTGGG
ACGCAAGGGGAGAGGAAGGGGCAGAGGTTAGACGGTATGAAAAAGTTATTAATTATGACT
TAGAAAGAACGGACGAGGTTGAAAATAAATCCGGGGAAGTTGCTTGGGGGCAGGCTCTGG
CTGGCTCGTCGGAACTTAACTCTACTTAGGCAGCAAAGGAAGAACAAACAAGTCAGGGTA
ATCAAGAAGGGTATCACGGTGGGGCCGAAGAAAGTAAAACAAGGAAAAAGCCTAATATTA
AGAAAAACGATACTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 675>:

GNMIH64TR gnm_675

AAGATCATAGTTCTTTAGAACAGGTCCGAGTCAAATTTCTTCTAAGGGCCAGCAAAGTAA
ACGGCTTAAGATGTACCAAGTGGGCGGCAAAAGCAAGCACCGCTGCCAACCAACACAACC
CCTGCTCTCTCAGAGTCGAGGCTGTAATATTCATCTTCTTTGCGAGCTTCCAAAGCGTCT
GCTGGTCTGGGTACATCCTAGAGTGCTTCTATCCCAACTTAGTCAGGTACCTACCCTTAA
AGTCAAAAAACACCACGGGCGTCCGGGGTAATTATAATAAACAGCTTAGGGGTGGCCAAA
CAGCCACTGGCCCGCAGCTTCTTAGCAGGAGCCAATGGGGCGCCTAAAATAGAACTATGG
TATCAACACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 676>:

GNMIH65TR gnm_676

GCCTCTTAGATTCTTGCTACCGTGCTTCGTTATCCATCTTTCTTAAGAAGAGCCCACATT
AAAGTCAGCGCGTTCAGGGTGGGGATCGCCTCCAGAGTTCGTCCTGGGCTGGTACGTGTG
AGAATCCTTGTAGTCGTCAAACAACTGGTAAGCGTGGGATTCTTGTTCGTGGTACCTCTG

GTTGGTTCTAGAGATCTTCGAGACGGGGGCGAAGGGGTCGGAGACTTCGCGGTGGGGTGC
TTAGATACGGTCCCAAACCAGAGCTGCTTCATCCAGGTCTTGCGCGTCATCAGATTGATT
GTGATTTTCTCGTTGCGAGACTTGCTGGTAAGGCTACCGGGCACCGGCAGTAAAGGTGGC
GAGCTCGTAGGGCCCGGGCCAAACGTGTTCCGAGCTACAGGTCCCCCCCCCCTAGGCAGG
GGCCTAGTTTGCGTGCGAATTCTAATCGTAGTTTCATTCCTATACACTAGCTGGTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 677>:

GNMIH66TR gnm_677

GGGGATATATGTAGCAAGGTAGTAAAGCCAAGTGCGCAGCCGTGAAGAGTGAGTTTAGTA
AGAAATAAAAGAGCAGGAGTGGGGACTGGGAATGCACAGAAACTAGTGGGAAAGGGGTGG
GTAAGAAAATTGAAAGGGCTGGCCAAGGGATGGGTGCGAAAACGGAGGGCGGCCCAGGTT
GTGGTATTGACGGGAATAAAGGGGTTAAAAAGTAGGGTTCTACTGGTGGGGCAAGGGGTG
AGGAAACGGAGGCTGGCGATAAGGGTTCCAGTAAAACTCTTAGAAGAAGAGGTAGGGAGA
CTTGTAGTGAACCTGGGAAAGGGAGGAAAGAGGCAACAGAAGAGGTTCGGGGTGGGATAG
GGCAGGGCAGGGCAGAGTAATACAGAGAAAAGCATGGGTTAAAGATGGCGAAAAGTGCAA
ATACGGAACGCGTGGCTGGGTGGGACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 678>:

GNMIH67TR gnm_678

AAATCTGAGTCTCAATAAAGTCAATAGGTACATTGGTTGCTTGTCTACCTGAGCGTGGGT
GGAAAACAATGTCAACTCCCCTGGAAGCCGGAGATTGAGGGCCAACATCAAGACATCTAG
TAACCTAGTCCAGAGCGTCGTGCAACTTTCAGGGGTGGATGTAAATATTAAGTAGTATCA
TTCAGGCAAATTAAGGATAACCAAGTAGGATCAGCTAAGATACTATATGCCTACCATAAA
TTCATAATGTTTGTCGGGTTAAGAAGGGTCCCGGGGGCTCTTGCTTCTGGAAGGGGAGCT
TCGAGCAAACGTAGCTTCAGGCCCGGAGGATTCCTCGCTTGGAGCAGAGCCTCCGGGTAC
CCTCGGTTCCTCTCTCGGGTCCGTTGCAACTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 679>:

GNMIH72TR gnm_679

GAATCGAGGACTACCGAAACTTTTGTGGTTTTCGTTCCTACTCATTTCAGTCACTTCAGG
CGCTGGTTGCTTCTCATTAGAGAATTTGGCTTCATCCAAAGGGTCTGTAAATTCCTAGAC
AGCTGCAGCGACGGTGTCTTCACAGTCATTATGATTATGGGCTTCGACTTCGTTAATGTC
GTTCTAGACTGGATTCGGTTTCCTCTAAGCTGGGTAATTCGGCTTCCGCTACGCCAAGAC
AATATCTTGGGTTAAAGAGTCTTCTTCTGTTCCGGTGCTTTCAAAACGTTCCGTCCTATA
TTCGTAATTCCGGGGGGTAAATCGCTGGCTAGCTCCTGCAAATTCGTCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 680>:

GNMIH73TR gnm_680

ATTCCGGGCTTCTTCAGGGGATTCAGGGTGCTGGTGGGGGGCCGCCAAGATGCGTTCTGC
CGACCTGGTCCCTGCGAGCAAAAATTCTTCTGTAACTTTAACCTCCAACTACTTCTTCAA
CTAGCCGGGGCAAGAGTGGGAGCTTACAGGGTCTGGCGGGGTACTACCGGGGGGCAGGGC
GTCCTAGTGCAAATAATACTCCTCTTCATTAAGTTCCGGGGCTTCGGGATCTCAAGTTCA
GACTTCGTGTTGTTGCTAAACAGATTCTGGGCTGTCGGCATCCAGCTAGAAGTTCACTGC

TGGGGTCACTCCGGAGACTGCTTATTCATATGAAACTTCGACTTGATTCGAATGGCnCTC
CAAATAGGGGTTGCGGGCTTGGGAAATATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 681>:

GNMIH74TR gnm_681

CTCTTTCGGATTGCCTTCAGTCCGAGCCCTAAAAATGGTAACCCTCGCGATTATAGTTGC
AATCAGCAAAGGGAGTGTGGGCAACTGCCTCCTCAATCTTGCTTCTATCACGGTCATAGT
AGTAAACCTAGTCAGAAGTTGCAAGGCCAATAATCTGGGTTCGGCCAAAGTTACTACGGC
TCTCATCAAAGTCAAGGCCGCTACCTCCTGGTTAATCACGGGAAGTGTCATCAAGGTTGT
CTTCCTCAATGTATCTTTCGAGGTGGTCCTGTGCTCAGGAATAATGGTCCGAGGTACCAA
AGTTGTAAGGTAGGCAGGCATGCCCTCTTTCTCTTCAAATTCTCTCATCTCATTCGATCG
AGCCGTCACTTCCATCACTTCAACGGGGTTCCAGGGAGTGGTAAAAGTTAACTTAAGAGC
CATTTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 682>:

GNMIH77TR gnm_682

GTCTCCTCATAGTCAGCTTCGCCGAATCCCTCGACCGGGTTCCAGTCGAGGTTGGTATGG
GCAAAAGTCGCAATCTCTGCCGAAGTATTACTAATCTTCTATTTATAGAAAATCTTATCA
TTATCCGTGCTCCTATAATCTTGGGTGTCCTCCGCGGTCTTAAATTCAGAGATCTAAATA
TAAATCCTACAAGTCTTCTTATCATTCTCTTTCGAGGGCTGAACAAATGGGCAAGTTTCG
ACCTCGACTTGGGTGCTGTTGTCGGCATTAGCGTCTTCATTAGTAGTGGAAATCCTGCTA
GTCTTAGAGGGCATCATATCGTGAATACTCTAAGTAGTACTCTCTTCAATCATAAACTTC
TTACTCATCTAGACTTCAAATTCAACTGCTTTCACGGTCCTAGTAAAAGTAGTATAAGAA
TTCTAAGTACTCGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 683>:

GNMIH78TR gnm_683

GTCCGATTTATCATTCTTCCCGAGCAACTTTCTTTGGAGGTTTTCGTGAGTCCAATATCT
AATTGCTCCTAGGGTTCATTAGGTACCAAATGTGGAGCCAGGGGAAAACATGTATCCTCG
GGGGTCTTAGTCTCTGCCGCAGGAGCAGTCCTGCCACAAAACAGCGGTTTTATGTTCAAC
TTTCGTTTTCTCTTTTAATACCTACTATAATAATACCTTCGAATTCTGGTTCTTCAACTT
CTCTGTCTCTTTCTAATCTTCAGGATTCGAATCATTCATATCCGGTAACTTCGTAGGCAG
CAAAAAACTCCTCATTGCTCTTCCTGCATTTGCTGTAAAGATAAACTAATTCCTCATCAA
AAGAAATTCGGTAGTTGCGGGCCTCATCCTAAACAAGATATTGATCGTCTTTAAGTTCAA
TGGGGCCATCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 684>:

GNMIH80TR gnm_684

AATTGTCACAGGTGACAGGTTTATGGGTCGCCCAAGCATCCGGTACGGCTAGGTTCATAA
TATTCTAAGTGGCAAATTTTGTTCTTCGGAGAAACATAAAGTCTCCTATAAAAAACTTCG
TGCAAAGCTGCGGTCCTCCGGGTACATCCTAGGGCTGTAAATGGGAGTACCTCGAAGCCT
CTCGGGTCTTGGTGTTCTTCATAGGTGTGCTATACTCGGGCTACATCCGGGTAGACTTGC
TAATTCTCTTTATAGTCTCCCGCGACGCTTACTACTCGGTCTAGGGGGTATTAGTATGCC

TGGGACTCCTAATCCTAACGGTCTGCTTGATGGGTATGGTGCTGGGACATATTACTAAAC
TAAACTCTAAGGTGGTCTTTAAACTAGGTACAGACTTCCTTAGGGTGGTTCCTCTCCGAA
GGGTCCTGGTCCTGGCTAACCATCAATTCATCCGGGGCGTCCTCTCTAAACCTGTCAGCC
TCCTCCGGATTCTGGTCTCCCTGGTCTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 685>:

GNMIH83TR gnm_685

AATCCGTACTCGTCGTCCTAAAACTTCGTTCTCTCTTATCGTCCCCTGCGGCTATATGGT
CATTCTTGTTCATAAAAGTAGTGTTCCTCAGATTGGCTCTTAAAAACTTCGTAATGGCCC
TCATCTGGGACATCCTCGATTCCCTAGTTATCTGGTCTAAGATCCTCCTCCTCTCGTGCT
GTTTCGTAGGTCTCCGTAAATACCTACCTCCAGGAAACGCGGCAATTAGTATCCTCAAAT
ACCTCAGAGCCTCCAGGGGGTCTTTCAGTATCTTAGGAGCCGACAGATTCTTGGCGTCTA
ATACCGTCAAAGTTGCTCTCCCTTCCGGATCTGTGGCGATACTGTCCCTAAGCGCCTCCC
CTGCCGTCAGCGGCTTCAGCCTAAAAGTTTTCAAAAAGCTTGCAAATCCTCGAGTCCCTC
AATGTCCAGGCTCGGGCACTACTCCTAAGTGCCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 686>:

GNMIH84TR gnm_686

GTCCGATTTCTCCATGGCTGGGGTTCTGGGCCTGAACGAGCGTGTGCGGGGAAACGCAGG
AGGCAGAGGTGCTAGAGGTTCAATCCATAGTAAGCTAGTATTGGCGATGGTTAAATTCCT
ATGCTTAGGAATAAACCGAGTCCTTAGCTTGCTTCTAGCAGCGGCGGTAGTTACGTCAGG
ATTGATCCTAAAAAGATTGGTCTGCCAGACGACCCTATTGGTGGCCGGAGCAAGTGTGGG
TCTGTTAAGAGTTAAATCGGGTTGGCTACTGAGGCTTTTTCTGGGCCGATGCTTGGTTCG
TCGGGTGGTTTCCGGAACTACGAGGGCTCTCGTTACCCTAAGAGCCGGCTTAGACAGGGG
CTTGCGTTTCCGCGGCCGTAACCGGGCATTGCTATTCAGCGCCCGTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 687>:

GNMIH85TR gnm_687

GTCGTACTGGATCTACTATTTACCCTTGGCTAGAAGTTCCATGCCGAGCAAAAGCATGAG
CAACAAAGTTTTGGCCAGCTCGGCCAACAGCAAAAGCGAGTGCAAGTACGGCATATAGTA
CATAAATACTTGTAACATAAGATCCAATGGTAGCAAAAAGAGCAAAAGCAGGAGCAACAA
AGTTTTGGCCAGCTCGGCCAACAGCAACAGCGAGTTCAAGTCCGGCATATAGTACATAAA
TACTTGTAACATAAGATCCAATGGTAGCAAAAACGGCACATACGCACGGGCTAATTAACA
CTTCTCTACTTCTCACTTTAACTTCTTATGTACTGCTAACTTTAACTTCTTCTCTAACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 688>:

GNMIH86TR gnm_688

TCATCAATTCTACATCGATAAAGACGATCCAATTCAGGTATGGCCGCTGGTACTATTGGA
CACAAGTCGGTGTGGGCACTGAACCTCACTTAATCTTCGATGCCGGGGGCGGAAGTTATG
AGATGGGTTCCATGGGTTCCTAACTTTGCTTGCTTCTGCAAAGAGTGGGTCCTCCAGGCG
CTGTTCTTAGAGTCCTGGATTCGGCCTCCCCTCCGGGCAGCAACATCCTATAAAGCTTCG
GGCAACCATCGGTACATCCTAGGGCGCTGCAGGTCTAGTAACAGGGAGGCGGGCCTGCTT
GTCAGGGCCAGCGTCAGCTCCATCTGGGGCCGTAGATTAATCGGAATCACCGACGTTAGC

TTTTAGGGCCGCTCCGTCAGCCGCCGCTGCAACGTCTTCTTATAAATGGTCCGGGGTGTT
AGTCCCTGGGCCGACTACGGCAAGGGGGTCCTGGGCACGGGCATCCnCCTCCGGGGCTTC
GCTAGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 689>:

GNMIH87TR gnm_689

AAAGAATAACCTTCGTGCAAAGTGCGGGGGTAATGGGGGTACATCCTTGGCTAATGGCCT
AGGGTAGGTCGATCCGGATCTTCTGAAACCTCCTGAATTCGATTGATCACTGTGCAGAAA
AAGCAGGGAGCCAACTAACTGCGACTTGCTAGCAAATTGAAAAGTTAGCTCGAACCGCGC
GCTGGTACTCTCTATCTCGGTTAGCAGGGATCCTGTAAGCTTCGTGCAAAACTGTATAAG
GGGGTACATCCTAGGGCGGAGCTAACGAAAGAGGTACAGGTGTGCGAGATGCGGTACATC
TCGCTCGCTGCAACATATTGnTGATCTGGCTGCTACAATGGGTCCCGAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 690>:

GNMIH88TR gnm_690

TAGAACCGATTTTGCTGGTGTCAAGAAGGGTGATTCATGGGGGCAGCTGGGTAAGACAAG
GTAGCTTCCGACACACAAGAAGACCTGGATTAAAACACCTTATTACGGGAAGGAAGCCCG
ACGGAGGATAGGTCTTACACTTCAGGGGAGAGCTGCCAAGAGTTAGATCGGCGAAGTCGA
AACTACTGCTATCACACAAACCACGATGCAGAAAAAGTAGATTTGGATGTGTGATCGAGG
TGGGGAAGGGAAGTGTAGTGGTGGTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 691>:

GNMIH89TR gnm_691

AAAACGACCAGCTTAGGGCTATAATAACTAAATGCGTTATAAAAATGAGGTGGTAGCAAA
AATAAGTTATACCGAGCTATAAAACCCAAGTTCTTGGATTCATATTTGAAAAAAAACAAA
GTTGCAGCAGGGGGAAAAGAAAAAAAACGGATTTATACAAAAGGGTGTTGAGTAAGAGAA
GTAGTCGGGGAGGAGGGAAAGGGGAGAGGGGAGGGAGAATTTGGTACTAAAATCCGATAC
TAAACTCGAAACCTAGTGGGGTAAAAAAGGAAAAACGGAACCAGGCGGAAATAACGCGAA
AGTCCCGACACGGCTCCGTCAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 692>:

GNMIH90TR gnm_692

TCCGGGGCTGACTAGGGTCCGTGGAGGGCTCTAGCCTGGGGGTCCTCCCGCGTACGCTGG
TCAGAAACCTGGTCTCTGCCAACAGCTCTGTCCTCGAGGGCACTACTCCTCTCCTATGGG
GCTTTACGGGCATAGTCGACGCCGTCACTTCTTATACTACTCCACTAACCCTCATAGTAA
GTAGACAAAAAGTGGTCTTCACCAGCGAGGGCTGGGGCTGCAATCAACCCCTAACTAGCC
GTACATTCGGCTTCAGCCTGGTCTCTCTGGGGCTTGCGGTTGGCGGCCGCCTCCTCCCCG
GGGTGAATATGGCCATCGCCGGCAATAAGGTGGGGGTTAGATCCGATACTATTACTTCCT
TTTCATTCTCTAGAATCCCAGTCTTCCCTAGTACTGCTCCAGCCCCCAACTCGGTCGTAA
GCGAGGTCGGCAGCAGAGGCCATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 693>:

GNMIH91TR gnm_693

GGTTTGCCGGCTACCTCCGAGGTCCTCTCCTGCCGCAATAGGTCCGACCCGGTCGGTATC
TTGGGCCGCAGCACCGTCGTTATTAAGATCTTCACCGACCTGGCGGTCTCCTCTACTACC
ACTCCCGTGGCGTTCTCTATAGAGGCTATCCTCGGTCTCTTGCTTAAGAAATTGGCTCTC
CTCCTGGTGGTCGACTTCCGTCGATTCGGCAGGGCTTTCCTCAAAAATAAGTTCCTAAGC
CGGGGCCGGGTCACCTGGCTGGGCACCGGCTCTCCAGTCAACGACGTCGAGGTCAGCCTC
GACTTCCCCTCTACCAGAGCCCTCGGGGTTAAATTGGGTAGATGCTCCATCACTCTCAGG
GCCAGCGTCAATCCTACCTGCCGCCACAGATTCGGACCAGACGAGGTCGCTCGCCGTACA
TTGGTCCCGGTCACCAAAAGTGCCGCCTGCGTGGGCGTCCTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 694>:

GNMIH92TR gnm_694

CCTATCTTGGGTAGTCCTAGGGTTGGTGTTCTTATCTCTATACCGTCCAAGTTCTATTCG
AGTTTTTGTTCTAAGATCCTGCGTCCCGGGCTACTCGGGTGGCGGTAATTCTATTGTCTT
CCTCTCCAGAAGCTCCGCCAGAGCCTGTGGCCCAATATTTGGCACCAGGGGGAGTACAGA
CGGAGTAACCTCGGCATTTCTTGTAGCGGTCCTAATTTTGAGTAACTGCATTCAAGTGGG
CTGGAGGGTCGCTCGGGGTAGTGAGAAGTTCAATAGTTCGGGTACTAAAAACTCTCTTTC
TTCTCTTGTTGCAAATCCGGGATGGGAAAATCCAAGGGGAGAGGAAAAATCTATGTTCTA
AACTAGGGGTTTGCTCTTGCGGTTTACTTCCTACCTCTACAATCGAAGTAACGGGCAAGG
CAGGGGCTTCGGGTCCTCTCCAACGAACATCCTACTTCCCTTTAACGTTTAAATCTAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 695>:

GNMIH95TR gnm_695

CTCAAAGATAGAGGAAAAATGTAAGCCACGCAGCCTAGAGGGACCAGACAGAGATGCAAT
CAACAAAAGAAAGGGGCGGTGGGGTTGTAGCGGGGACCCACGCAGGATAAAAGCAAAGTC
TGCAGCGCAGGAGAGTCCAGCTGCGGTAACTCATTGCAAAAGACAATGGGGGGTAACTGC
TTGGGCGACGGAATCCACAAAGGGACATAAAGTTTCAGGCTCTATGGGGAATATAGTGGG
TGGAGGCTCCAGACAAGATGAACGAAGCAGAAACAGCTGAGGCCGAGGGGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 696>:

GNMIJ55TF gnm_696

CCGTCCAACTCGCTCAATCAGGCTGGCACACGTGATCGTCTGCGTGCTGCGCTGGAAGCG
GCCGGTCATGCGCGACAATTACAGGTTGAGCATGGGCCGGTGACGGATAGTCGCGCCCGC
CGAATGGCCCTGGTAAGAAAAGCCAGCCAGTTGCTGGCCGAGGACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 697>:

gnm_697

AAATCGAAATAAACCGTGTTGTAACGGGAGACCGATGCCGTCATTCGCGCGCAGGCGGGA

ATCTAGACCATTGGACACCGGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTrGAT
TCCCACTTTCGTGGGAATGACGGGATGTAGGTTCGTGGGAATGACGCGGTGCAGGTTTCC
GTGCGGATGGATTCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGCAAT
ATTCAAAGGTTAGCTGAAGCTTTAGAGATTCTGGATTCCCACTTTCGTGGGAATGACGGG
ATTTGAGATTGCGGCATTTATCGGAAAAAACAGCAACCGCTCCGCCGTCATTCCCGCGCA
GGCGGGAATCCAGACCTTGGGATAACAGTAATATTCAAAGATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 698>:

GNMIK41TF gnm_698

CCGAGTCCGTGCCGTCTGAAGATGCTTTGGGCAAATGGTGGAAAACCATAGAGGAATGGC
GTTCCCGAGATTGCTTGTGGTTTGACAACGGCAGCGAAATTATCAAGCCACAATATGTGA
TTCAGAAGCTTGCCGAGATTACCGGCAATTCGGCAATCATCACATCGGATGTAGGGCAGC
ATCAAATGTTTGCGGCTCAATATTATCCCTTCGAACGTCCGCGCCAATGGCTCAATTCCG
GCGGTTTGGGTCCGCAACACAGGCGCCTCTTCAAACTGCAGGTCCCGAGCCGCCTGCTGC
ATGGCTTTTTCGAGTTTGGCGATTTCGTTAATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 699>:

GNMIK42TF gnm_699

CCGTGGTGTGACTGCGTACCTTTTGTATAATGGGTCAACGACTTACATTCAGTAGCGAGC
TTAACCGAATAGGGGAGGCGTAGGGAAACCGAGTCTTAATAGGGCGATGAGTTGCTGGGT
GTAGACCCGAAACCGAGTGATCTATCCATGGCCAGGTTGAAGGTGCCGTAACAGGTACTG
GAGGACCGAACCCACGCATGTTGCAAAATGCGGGGATGAGCACGATGGGCGTGGGTCTGC
CTTATGCGATTGGTGCAAAACTTGCCGCCCCGGATCAAGACGTATTCTGTATCACCGGCG
ACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 700>:

GNMIK48TF gnm_700

CCGGTTTCGGTTTTTTCCGATAAATTCCTGTTGCGTTGCGTTTTTGGATTCCCGCTTTTG
CGGGAATGACGGTCGGTGGGGTTTCGGTTTTTTCCGATAAAGTCCTGCTGCGTTGTGTTG
CTGGATTCCCGCCTGCGCGGGAATGACAGCCGCCGGACGGGAAACGACCATACACAATTA
TTGACAACCCCATTTATTGCGAAAGTCAGCCTAGGAGAATCCTCTGTAAAACCGGTCTGA
GTCTTCTTTTCCCCCGTACTCAATAATTTATCCGCCGCCTCTTTACCACCAAATTCATTT
ACAATTTGTAAAAATCGTGTCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 701>:

GNMIL13TFB gnm_701

CGTCCGACCAACCGTTCAAAACTTTCATTTTACCCGACCACGCAAGCCGCCGAACAAAAA
ACAAGGGGCTGTCCTAGATAACTAGGACAAACTTGATTTTACTAATTGTTTTAAAACGGA
CCAGGACTTTTAATTTAATGGTGGTTAAAAGGCATTTGGAATTCTTTAAAATCAAGTTAA
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 702>:

GNMIL82TFB gnm_702

CCCGACAAATTTTTGGCGCATGGCTTTGATGCGGCCGCGCATTTCATCGAGTTCGGCAAT
CCATTGTGCTTTCAAATCATCATTTTTCAACATCGTCGCAATGGTGTTCGCACCGTGTGA
AGCCGGGTTGGAATACAAGGTACGGATGATGGTTTTGACTTGGCTGTGGGCGCGGGCTGC
TGTTTCTTCATCTTCGGCCACCAAAGTGAACGCGCCGACGCGCTCGTTGTACATACCGAA
GTTTTTGGAATAAGAGCTGTCTATCAGCAATTCTGTATTGTGTTTTATGATCACTCGCAA
GCCGTTTGCATCTTCTTCCAAACCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 703>:

GNMIM22TRB gnm_703

CGGTTACGGGCGCGAATTGTCCGCATTCGGGCTGTACGAGTTCGTCAACGTCAACACCTA
CTGGGAGAAATGACACACCCCGTGCCGCTTCATACGGTATCGGGTTTGCGCTAGAGCCGA
TTAACGGCAGTATTTGTTTACGGCGTTATTGTATTTCCGAATCAACTCATCCTTGTTTTT
TGCATTTGAATTTCCCACCGCCTTCAGGTTCATTTTTGAAATCCGGCAGTTTTCTTCTTT
GGTCTGCCGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 704>:

GNMIP07TF gnm_704

CCGCAAATACAACCCGATTTTCGACTGGTCGGAACACGACGTGTGGGCATACATCCTCGC
CAACAATGTGCCTTACAACGATTTGCCACGTAAGGATCCCTTACCGAGAATGCCGCAAAA
CACATCAATGACTATCTCGCCAAACGCGGCAAAGGCTTGGGCGTACGCTTGGGTGTGAAA
ACCAGCGGCTGCTCGGGGATGGCGTACAACCTTGAATTTGTCGACGAAGCCGATGGCGAC
GACCTGATTTTCGAAGGACACGGCGCGCGCATTTATATCGATCCGAAAAGCCTGGTTTAT
CTGGATGGCACGCAAGTCGATTACACCAAAGAAGGTTTGCAGGAAGGATTCAAATTTGAA
AACCCCAATGTCAAAGACTCCTGCGGCTGCGGCGAAAGCTTCCACGTTTAAGGCATAAAA
ACGGCGGGACCGTATCAAAACCGTCCCGCCATTTTTACGCTTACTGCCTGTTGTAGCTGC
CTTTGCCTTTCCTTTTCCGTTCCACCTTGTGCCGGAACAAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 705>:

GNMIP26TR gnm_705

GACGTCGAGGTTGATGGAGTGGCTGTACCCGACCAGCACCAGAACCGGTGCGGTTTCACC
GACGACGCGCGCGATGGACAACAAGATGCCTGACACGATGCCCGGCATCGCGATCGGGGC
GACGATCCGCACGATCGTCATCCATTTCGGAACGCCTAACGCGTAGCTGGCTTCTCGCAG
TTCATCGGGCACCAACCTGAGCATCTCCTCGCCTGCCCGAACCACCACCGGCAACATCAG
CAGGACCAACGCCAACGCCACGGCAAAGGCGCTCTGCTGAAATCCTATGGTGGCGATCCA
CAGGCTGAAGACGAATAACGCCGCCACGATAGAGGGCACGCCGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 706>:

GNMIP64TR gnm_706

ATGGGCGTGGCTTTGGCGCGGGCGTGCCGTGCCGCCGGTGCAGAAGTCAGCCTGATTCAC
GGACAGCTTCAAACCGCGCTGCCTTTCGGCATATCCGATACGGTTCAAGCCGTCAGTGCC
GAAAATATGCATCGCGCAGTGCATCGTTTAATCGACAAACAAGATGCTTTTATTTCTGTT
GCCGCCGTCTCAGACTATAGGGTTAAGAGGAGGAGTACTCAGAAATTCAGGAAAGATAGA
ACTGCCAAACCGTTATCCATCGAATTGGCTGAGAACCCCGAGATTTTGGCTTCTATTGCC
TCATTAGCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 707>:

GNMIP74TR gnm_707

AGTGGGTGTCGATATTTACAACTTGGGTAACTTCACCCGTTCCAACCAGTCTAGCAATAT
CAATCATCGTCCTGCCGTCAAAGCCGGCGATGTTTTGCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 708>:

GNMIQ34TF gnm_708

CCTGTCGTCTTCGGCATCGCCAAAGAAGGCTCGCTCAAACGCGTCATTACCGGCGAAGAC
GAGGGAACGCTGGTTCACTGCTGATTGACCATAGTGTCGGCAGATATAGTCGCATATGGG
CTTCAGACAGCCATTTATTATATGGAGATTATAGTGGACATCCCATGGCATCGACATCAC
CTCTGGTGGCAGCATCCACGCCTACCCCACCGCATTCGATGCCCCCAAAGGCAGCACTAA
CATCGAGGCTCCGGCGGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 709>:

GNMIQ67TF gnm_709

AAACTGACGTTTGTCTTTCCAGGATGAGGTAGAACCATGATTTATCTGTTTACAGGAAAC
ATGGGGACAGGCAAAACCTCCCGCGTCGTCTCTATGATTTTGAACAACGAACACGGATTG
TTCAAAATGAAATTGGCACACGGCACATATGTAGACAGACCGCTTTACTTCTGCCATATC
GACGGATTGGATAAACCGCAGTTGAAAGCCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 710>:

GNMIW65TR gnm_710

TCCATCGGGTCGAGCGACTCGTCCAACTATGCCGCCTTCCTCCGCTACGGTATCCGTACC
AGCCTGCAGTCCAAACATGTCTTGCACAACTTGCGGCTTCCGTTGCACAAGCCGATAACC
CCTTCAGTTATAGTGGACAGCAACCGCTTTTTGAAAGACAGCAGTGATATTGTGTTGGAT
TTTCCGTTTAAAGATTGTGTGTTAAATGGCGGACAAAGCACCGAGGAAGGCGAAGAAATT
TATTTTAAACGCAATAACAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAG
CCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAATTATACACTAAATTAACCCG
AGAGAGACAAGAAATCTTTTTTAATCAAACCCTTGCTTTTGATGAAATTGATCGGCTTTT
TGACGCACAAGCATTCTCAAAATTCTCTCGCTATACCGCAGACGGCAAGCAAGCCGTTTG
CGCAAATCAAACGACAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 711>:

gnm_711

CAGTTGGCATTGTTAGATAATTTGATTCACAAATGGGCGGAAACTGGTTCGAACTGGGGC
AAAAAATCACCAATGyGACTTTCAACCGAyTGGACGCAAACGGCTAATGAAGGTATTGCA
CTGACACCATCCCAAGTAGCACAACTAAAAAAGAACGCTTTAGTTTCCCTTTCTGATAAA
GCTAAAGCAGCTATTGACGCCGCCCGCGACCGCATTGCCGTGCTTGATGCnTACACGGGG
CAGGATTCCAACACACTCTATTACATGAGCGAGGAAGATGCGCTTAATATCGTCAAAGTA
ACCAACGATACATACGACCATCTCGCCAAAAACATCTACCAAAACCTGTTGTTCCAAACC
CGTTTGCAGCCATATTTGAATCAAATCAGTTTCAAAATGGAAAATGATACGTTCACTTTG
GATTTTAGTGGTCTTGTTCAAGCATTTAACCATGTCAAAGAAAGTAATCCGCAGTGGTAC
CGAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 712>:

GNMIX74TR gnm_712

TAATGCCTGTAAATCCATGTCTTTAACGGCAGCTCTGGCAGAAGCGGCCACAAGTTCTTG
TTCGACCGCAAAGCGTTTACCTCCGCCATGCGATGGAATACCTGTCAGTGTCCCGCAGGC
GGATAAAATAAAAACTGAAAAAAGAATAGGTATCAGCAGCCGTGCTTGCATAGATTTTCT
CCTTTGATGAAAAACAAATTGTATCAAAATTGTAAATATAGTGGATTATCnGTCGGCGTA
ACGCTATTGGACGGTTCCCGTCATGCCCCGAATCCAGTGAAGGAAATTGAAGTGGCCCGC
GTGTTACAATATATCGGACTGCAAAGCGGTTCGACCACGGAGGCAGCCGTCCGTTTTATG
CTTTAGTGTATGCGGCAGCAGGTTTTTTGGGACGGCAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 713>:

gnm_713

CGTACGGCTTTCTCTAAAAATACCTAAACCGTCATTCCCACGAACCTACATCCCGTCATT
CCCACGAAAGTGGGAATCCAGGACGAAAAATCTCAAGAAACCTTTTTACCCGATAAGTTT
CCGTGCCGACAGACCTGGATTCCCGCCTGCGCGGGAATGACGAAGCTATCCATACGGAAA
CCTGCACCGCGTCATTCCCGCGAAAGTGGGAATCCAGAACGTAAAATCTCAAGAAACCGT
TTTCCCGATAAGTTTCCGTACCAACAAGGCTGGATTCCCGCCTGCGCGGGAATGACGAAG
CCATCCGCACGGAAACCTGCCGCGGGCATTTCGGATATCGTGGTTCTGGCAGCTTGGCGG
CAGGATGCGGAAGACTTCAACGAAGCCTATTGCCGCCATGTACGCCGCAAAATGAACATA
CCGGAACATTTGGCATATTTTGCCGGAGAGCCGATTATGATCAGGCAGAACGACTACGCG
CTTGAACTGTTCAACGGCGACATCGGACTGATTATGGAAGATGTCGGACGGCAGGGCAGC
CTTGCCGCCTATTTTGCCGATGCGGACGGATTTAAAAAGGTAGCGGTAAGCTGCCTGCCC
GAATTTGAACCCGCATTCGCCATGACCGTCCACAAAAGCCAAGGTTCGGAATACCGGGAA
GTATGGCTGCTGCCGCCTTCCGCCGCACCTTCGGACGAAGGGGACGATGCATTGTCCGGA
TTGAGTAAGGAGCTGTTATATACCGCCATTACCCGCGCGAGAGAGAAGTTCGTATTCTTC
GGCGGGGAAGAAGCCTTCCGGCAAGCTGCCGCCACCGTCAAAACGCGTCAGACGGCATTG
GGCAGTATGCTCGAGCGGGTATTTTCACAAGAATAATCCGCCCGAATGCCGCGCCGCCGC
CCCTTATGCCTTTTTCAAACGGTATAGGAAAGTGGTTTCCCGGGTTCGCGCAAAAGCAAG
CGGATCGCTCGGATTCGCGGCTTTTTTGTGCTTCGGCTTGGTTTTCATCATATCGGCAAC
ACGCAAACCCGCCTGAGCAAATGCCTTATCCATGAAAATCGGATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 714>:

GNMJD95TF gnm_714

CGCTGCGGCATAACCTTCCGCCTTGTCGACGGCAGTATAGGCAGCCGTGTTGACAATGGC
GTCGGGTTGGAAACTTTTGACCATGTTGCAGACGGCATCGGCATCGGTAATGTCTAGGGA
TGCGGAATCCGTCGCAATGGTTTCCCAGTCTTCCGGAAGACGGTCGCGCAGGCAGCGTGC
CAGTTGGCTTTTCGAGCCTGTCAATAGGATTCTCATGAGGTATTTCCTTTGGTAAAAGTG
TATTGTAGGACTTGCTGTCGGTATTATAGTGCCAAAATTTTGCCGCCTGTCGGGCAACCA
ATAAATCGACTTTGCCCAGTTTGGCGGCAGCGGTAACAGCATGCAAAGTGGTATGATTCA
ACTGTTTGTTGTCGTGTTCGACAATAATCAATACACTCATTTCAGCCTCCTCAAATCACT
TTGGCTTCGTTTTTCAATTTTTCAACCAATTCGGCAACGCTTGCTACTTTTACGCCTGCC
TGACGCGCCTTAGGTTCGGCAAATTTCACCGTTTTCAAACGAGGTGAAATGTCGGCAACC
AAATCGTCAGGAGTCAGTTTTTCCAAAGGTTTTTTCTTTGCCGCCATGATATTGGGGAGT
TTGACAAAGCGCGGGTCGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 715>:

GNMJE78TF gnm_715

GGGTACTAACCGATGACTTTGACGAACGAAGCGCGTTCGCCCAAGCGTTCCAATGCCGTC
TGAATCTGCGCGTACCGGCGGTGTCCTTCGATGTCGATGAAGAACAGGTATTCCCACAAA
ACGGATTTGCTCGGACGGCTCTCAGACTAGGTCATGGAAATACCCGACTCCGTCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 716>:

GNMJE88TF gnm_716

AACCGCCCAAGCCATGATTGCCAAACACATCGACCGCTTCCCGCTATTGAAGTTGGACCA
GGTGATTGATTGGCAGTCGATCGAACAATACCTGAACCGTCAAAAAACCCGTTACCTCCG
AGACCACCGCGGTCGTCCCGATCGTCCACGTGGTGTCCATGTTCAAAGCCGTTCTGCTAG
GACAATGGCACAACCTCTCCGATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 717>:

GNMJH15TF gnm_717

CCGCATAATCGAGTGTACCCATTTCCTGCTTGCCATCGGTTTCAAACCCGCAAGACAAGG
GCGAACCGCTCAAAGTCGCCGCTTCACATCTTCCTGCAGCCGCCCGCCGCGACATGAATG
TCTATCTTTCAGGCTGGCAACTGATTGACGGTATGGTAAACGTCTGACGCATCGTCCACG
ACCACTAAAGCGAATGTTGCGGCTTCGGCGGCACATTCTCCGTCAAACAAGCCGATATTT
CCGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 718>:

GNMJJ79TR gnm_718

GTATGGGTTTTCCGGCGCGGGGAAAACGTCAGGCATCGCGCCGTATCGAAATAACCGGAC
CCGCAGACCCAACGGCAGTCCTGAACGACGACCTCGTCCAACAAAGCCAGGTCTTCCTGC
AAAGCGCGGACATTGTTCAGCACATGCCGCCCGAAATGGGGAATCTGCGCCGAAGGTTCG
GGCACAGTACGGTGCCGGTAGCGGTTTCGCAAATAAGCCGTATCGGTATTGCTTTCAGCC
TCGATATTCGGCACAGCGTGTTTTTGGGCATAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 719>:

GNMJJ84TF gnm_719

ATTTTGCTCAATATTAGGAAGGTTTTAAGCAATTGAAAATTTGTTGGCGCATTTTTATGC
GTCAAATTTCGTTAACAGACTAGTTTTGCAAAGGTCTCTATATTGTTCGATATTTTTGAA
GACATCGATTTTTTAGGGAAACGATTGTTTACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 720>:

GNMJM49TR gnm_720

CGTTAAACGACGCAGCCGGCACTGCGCATTAAAAACGTGCCGATTGTAAACGCCGCCAAT
ACCGCCAAATCGGGAATGCCGTCTGAAGCCAGCCACAATGCCCAGTAGGTCGGCCACAGT
AAAAGCAGCGTCCCAATGGGCTTGTCCGCCCGCATCAGGCGCAGGTACACATCCAAACGG
TCGGACAGGCGTAAAAATAAAGGGGATTTAGGATTCATATTGCCGCGCAGCTTGAAAAAA
CGGTATTTTAGCCGAGAAAACGTTTCAGTTCGGGCAGAAAATAGTCGGTAAACACGATTT
CGTCAACGTGCCCGCCGGCTCGGTAATGCTGCGCGTGTCATCGAAAATATCCTTGATCGC
GC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 721>:

GNMJN57TR gnm_721

CGGCTGCTTCTATCTTTGATGCTCCACCATAAAGGTATTGCCCGAAACCGGCGGATGGAG
GTTTTGTTTTTCTGCCGCCGCCCGTGATCGCTTCGTGGTTCGCCAAACGCGCCTGTTGCA
GCCTCATTTGCGCATAATCCTGCTCCAAGGCGATTTCCTGTATTTTCGCCTTATCCAAAG
CTGTGATATTGAGCCTGTACTGGTTTTGCTGCATCACAACGGCAAAAGCGGCAACGCACA
CCGCATCCAGCAGAAGGAAATTCACTTTGTTCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 722>:

GNMJO71TR gnm_722

CCCATACTATATGTCTTAAGTGAGGAATACATGGTTCATTGATGAACCCAAATTTGACCC
TTGTAGCAGATGCTGTCAGTGCCCCACCCATATGTTCTTTGCCTGTCAGACAACGATACA
GCCCTTGTCGGTACGAATATCGTCTATGCCGCCATCCACAACTTCGGCGGTATGGCGGGG
CGCAACCGCAAAGTTCGGATTCCGCAACGGGAATTTTTGACGCTGACGGACGACGACAAA
CAGGCTTTGATGGACGATGTGCAGGATTATTTTTCGGGTCTGATACCGTGAATTTATAAA
ACCCTCAAAAACGCGCTTTTTAGCGCGTTTTTTTATGCGGGTAATACAAACCCCTGCCCA
AGATATAAAAATCAATCCTAGACGCTTCGAAAAAGCCCCTGAAAACGATTAATTGTGTAT
CGCGCGGACAGGTTTTAAAAAAATGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 723>:

GNMJQ51TF gnm_723

GCTTCATCGTCTTCATCCCAATCTGACCCCAAACATTCGCCTTTTGGTTTGACGTGATGA
CAGGTAAACATACCTTTAATTCGGTCTTCACGGGCTTGGTTCGGGCTGTATTCGACGTTG

AAAAAGTCATTTGCGATGTCAACGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 724>:

gnm_724

CAATCCGTTAGCGAGGTGCCGCCGGCTTCCATTCAGGTCGAGGTGGCCCGGCTCCATGCA
CCGCGACGCAACGCGGGGAGGCAGACAAGGTATAGGGCGGCGCCTACAATCCATGCCAAC
CCGTTCCATGTGCTCGCCGAGGCGGCATAAATCGCCGTGACGATCAGCGGTCCAATGATC
GAAGTTAGGCTGGTAAGAGCCGCGAGCGATCCTTGAAGCTGTCCCTGATGGTCGTCATCT
ACCTGCCTGGACAGCATGGCCTGCAACGCGGGCATCCCGATGCCGCCGGAAGCGAGAAGA
ATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 725>:

GNMJV83TR gnm_725

TTTAAAATGGAAATTTGAACTTTTATCTCACTGTTGTTAAAACGCCGTTCGTACCCCTTT
AAATACAGCTCAAAATGCGCTTTGGGAATGCCGTCAAACTTGCGTAAATGACGTTTTGCC
CGGTTCCAAAAGTTCTCAATTCCATTGATATGGTTTTGTCGTTCAGCAAAATAACTTTCA
TCTGCTTCTACTTCGCCATCAAACATTTCCAAATGCGGACTGTTTTGATAAATAAGTAAT
CGTAAACGATGAAAATAATAGGCTGCGGTACTTTTATTAACGCCTACTAACTCTGCTGTC
GTTCTTGCAGTTACACCTGCGACAAACAGTTCAATGAGTTTATTTGTTTATACCGGCTTA
GACGACTTTTTCTCATAGGGGCAACTCTAACTTAATTTGAATTTCCCTAGTTATCCCTAA
AGGGGGGAAACCCAAAAGGGGGCCCCCCCCCCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 726>:

GNMJW65TF gnm_726

CGAATTTGTCGGCGGCGGCGCGGCAAAATCATACTTTGCAAAATTTAACAATTTGCAGGG
GCAGAAAACAGGAAGCTTTCCTTTTTCGTCGGAAAATCCTTATTTCACCGCCTTGTAGCC
GGAGCCGGTCAAAAGGCAAAAAATTTACCCGTTTTTTATCGGTAAAGAATTATCAGATAA
AACAAATATTATAGGAAAAATACGACAGGCGGGTTTTATCGCGCATTGCCTGAAACTGAA
AAATACAACCGTTGTCAAGACTGGAGAAAATGCCAAAAATCCACTATATTGTCTGCCTTA
ATTTATTTGAAAAGACTGTGTCTTGAATATCAAGAGTGGAAGAGGAAGCGATGAATACAC
CGACTGATTTGAAAGTAACCAAACGAGACGGAAGATTAGAAGCCATTGATTTGGATAAGA
TTCACCGTGTCGTCACTTGGGCGGCGGACGGATTGGAAAATGTTTCCGTGTCGCAGGTCG
AGTTGAAATCGCACATCCAGTTCTACAACGGCATCCGCACCGACGACATCCACGAnACCA
TCATCAAAGCCGCTGCCGATTTAATTTCGGAAGATACCCCGGACGGTGATGCTGCCAACT
TACTGATTTAGTGTATGATGGTGTTTTTGAGGTGCTCCAGTGGCTTCTGTTTCTATCAGC
TGTCCCTCCTGTTCAGCTACTGACGGnGTGGTGCGTAACGGCAAAAGCACCGCCGGACAT
CAGCGCTATCTCTGCTCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 727>:

GNMJY95TF gnm_727

CTAGAGATCCCTGGAAAAACACACAGCCGGCACACAGACTATCTCGCCTACCGCGACGCG
ATTGCCAACAAACTGCTGGAAGTCCGTTTCGCCACTCGGCAAATCGACAGCCTCAGCAGC
AGCCTGCGCGGGAAAGTAGAAAACATCCGCAGACTCGAACGCGAAATCCGCGACATCTGC

CTCGACCGCGTCCATATGGGACGCGACTACTTCATCCAAAACTTCCTGCCCGAAATCACC
AATCTAGAATGGATTGAAGAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 728>:

GNMKA52TF gnm_728

GGTCAGCCCGGCAAGGGTCGAATATCTGATCGATATGCCGATGGAACTGTTGCAGAAGGC
GGAGGGCGGCGTTTTGTATGTCGGCGACATCGCCCAGTACAGCCGCAACATCCAAGCCGG
TATTGCCTTTATTGTCGGAAAGGCGGAACACCGCCGCGTCAGGGTGGTCGCATCGGGCAG
CAGGGCGGCAGGTTCAGACCGCATTGCCTGCGAGAAAGGTGGCATGATTGCTGTCGGCAT
CGGTCGTCCGTATTCCGCCGCTGCGTATGCAGCATGAAGACATTCCCTTCCTGATACAGG
GGATTGCCTGCAATGTGGCGGAAAGCCAAAAGATTGCGCCTGCCTCATTCAGTGAATAGG
CACTTGTCGCATTGCACACGTTCAATGGCTGGCGTTCTATTCGACCAACTGCAAAGCGTC
GTTGCAACGCTGTTGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 729>:

gnm_729

CATTTCCATACCTATGAAATCAATAGCAGGATTTAAGTTCAAGTTCAGCTCCAGATCTTC
TAAGCTGGAGGACAAAAAGGCGAAAAGATATGTACTGGTTTCGCCTCTTGTTTGCTTCTT
GCTGATCAAGAACCTCCCCGATGTATTCGCAAACAAATGTGCCACGCAGTATATGTTCAC
AAGCTCGCAATCCCCATCCCTGTTGATCAATCAGTTGGATATTGGAATTGAATCAAGACA
AATGGGTTAAAGACAATAACTCAAAAAGGATCACACCTTGCTTTCAGTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 730>:

gnm_730

AAGGGGATACTAGAGCATACTCAGTGaAGAAGCAAAGAAAATCAACAGGTTTCAGTAGAA
AAAAATCGAAACTGGGATCGTAAGTTTACCAGGAATTGACGAAACCCGCGAATCTCGTTA
CTCTCTTCGAAAGCCCCAAACACGAAACAGTCTTGTCAGTTGCTCAAGCTCCGTGTTTCC
TGAGAAAAAACCCATAACCTAATCAACAACCCAATTGTTAAAAATCCATCTTTATGAGAA
ACAAAGAGAAGCTAAATCAGAGAGGAAAGTTGGTTCATACCTCTGAGTCTGACCAGAGAC
GACGGTAGCAAAAACGGAAATTTGATGCGAGAAAGCCGAGAGGGTTTTTCTTATTTATTT
TTTAGTCCTTTAAACCGACCTTTGACAAAAAAAAAAACGACTTTGTGAAAACGGGCCGGTT
CATATTGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 731>:

GNMKV51TF gnm_731

TCGTGGTCGAACCCTACATCATCCGCCATGACGTTCCGATCGGTGAACGCAGCAACTACC
ACCTCTCCAGACATATGAACTTTATACGGCTTGGGCGGCTGCGGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 732>:

GNMKY49TF gnm_732

CAAAATCGAAGGCGGGTTTGTCGTGTTACTCGGCGTAACGCATAGCGACACAGAAAAAGA
TGCACGCTATATCGCCGACAAAATCGCCCATTTGCGCGTGTTTGAAGACGAAGCGGGCAA
GCTGAACCTGTCTTTGAAAGATGTCGGCGGCGCGGTGCTGCTGGTGTCGCAGTTTACGCT
TTATGCCGACGCGGCAAGCGGGCGGCGGCCTTCGTTTTCCCAAGCCGCACCTGCAGAACA
GGCGCAGCAGCTTTACCTGCGAACGGCGGAACTGTTGCGCGGACACGGGATTCATGTCGA
AACAGGGCGTTTCCGCACGCATATGCATGTCTCTAACGTGCTGAAGCACCAAGTGAATCG
GTTCCGTACTATCTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTGTTAATCCA
CTATAAAGACCGTTGGGCATCTGCAGCCGTCATTCCCGCGCAGGCGGGAATCTAGTCTGT
TCGGTTTCAGTTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 733>:

gnm_733

TATGCTTGGGACAATAGCGGAAAAACACCGCCTTGCGTTCGGCAAAACGGGAAAACCGCA
AGGCGATGTCCTGATACGGATTCGGTTTCTGCTCGTGCGGCAAAACGATGTTCAGCCCCA
CCGAAACCGACTTCCCTGCAAACGCGCCCTTGTTTGCCGCCTCCATAATCCCCGGCCCGC
CGCCCGAAATGACGGCAATGCCCGAATCCGACAGCCGCCGCGCCAGACGGCAGGCGAACG
CATAATCCGCATGATTCTGCGGCGTGCGCGCGCTGCCGAAGATACTGACTGCCGGAAACA
CGCCCGCCAATGCTTCGTCTGCCTGCCTGCGTTCGGCATCATAACGTGCCTGCTCCGGCA
CACGGTTTGTATTCTCCATTCCATCCTCCGTTCAAAAACAGCGATTGTACACCGTCAAAA
ACGTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGCCGCAGACAGTACAAATAG
TACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGG
CGAGGCAACGCCGTACTGGTTTTTGTTAATCCACTATCATATAGATTTTTATGCCATTTG
GTCAGAAACAGCGAAGACAGGCAGGGAAACGCCTTCAGTTCCATCGCGTCTTCAAAATCA
TCCCAAACATCGCTCAAATTCTGTTTGGATATGCCGTATTCCCGTCCGGCAAACATCACG
GTCTTTTTGCTTTTGGCGGCTTTTTTGAATGCCTTTCTCTGTTTTTCGGGTATCTGCTGC
CATCTCAACTGACGGTACACGTCGTAGCCGTCGCCCCAAAAAGAGGCATACCGTTGCGTG
TCTTCGCCGACCAGCGGCGCGGTATTCCCAACCCGTACATATCCCGTCGGCACGACGGCA
CTTGCCTTATATATGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 734>:

GNMLC88TV gnm_734

AACTACACAACCACGATTTAGCGAAAGGTATAAAAAATGCGGGTCAGAATTTAACATCAA
TGCAAACGCTTGATGAGCATAATAAACCATTGATGACTGCGCATTTAAAACGAGATACAC
TTAATGTTACATTATCTCGTCAAACACTAATCAGTATTATTCAGTCTTATGTACAACAAG
ACAGCATTTATTTAAAACATGGCGTAACTAAAATAGATAATAGTAATTCAAAAGTCATTC
TTCATTTCATGGAACAAGAAAGTGAAGCCTTTGATTTATGTATTGGTGCAGATGGCATAC
ATTCAATTGTTAGAGAAGCTATTGATAGCCAAAGCAAGGTTCAATATCAAGGCTATACAT
GCTTCCGTGGGCTAGTCGATGATATTCATTTAGATGAAACGGATGTAGCTAAAGAATTTT
GGGGCAAACAAGGACGCGTTGGTATTGTGCCATTAATTGATAACCAAGCATATTGGTTTA
TCATAATCAACGCTAAAGAAAAAGATGTCAAATACCAATCATTTGGTAAGCCACATTTAC
AAGCACGATTTAATCATTATCCCAATATTGTAAGACAAATATTAGATAAACAAAGTGAAA
CAGGCATTATATTAAACGATATTTATGATATGAAACCACTAAAATCTTTCGTTAAAGAGC
GTACTATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 735>:

GNMLC88TH gnm_735

ATATGAGCGTCGGAGTTATAACGAAAGACATTTATACAAAAGAAGACGAAAAGATCTTAG
TTAATACAGGTGTCTTACCTGAAGATAGAATTATTGGTGTAGAAACAGGTGGTTGCCCTC
ATACAGCAATTCGTGAAGATGCTTCTATGAACTTTGCTGCTATTGATGAGTTATTAGAAC
GTAATGATGATATTGAACTTATCTTTATTGAATCTGGTGGCGACAACTTAGCAGCTACAT
TCAGTCCTGAACTTGTAGATTTTTCAATCTATATTATCGACGTTGCTCAAGGTGAAAAAA
TCCCTCGTAAAGGTGGACAAGGTATGATTAAATCAGACTTTTTCATCATCAATAAAACGG
ATTTAGCACCACATGTTGGCGCATCGTTAGAACAAATGGCTGAAGATACAAAAGTATTTA
GAGGCGACAGACCATTCGCGTTTACTAACTTAAAAACAGATGAAGGTCTTGATGAAGTGA
TTAAGTGGATTGAACGAGATACTTTACTTAAAGGATTATCATAATGTCTCAACAAGCTTG
GACAGGTCAACTTGATTTAACCGTATTTAATAATGGAAGTCGTTCCGTTGCACGTGATAT
CTTTTTTGGAAAAGCATTAAAAGTTAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 736>:

GNMLC90TH gnm_736

AACAATCATTATGAACCCAAACCCCTTCCGTTTCCGCCTGACTGCCCTTGACGAAGTACG
TATGCCAATCGGCGACGGTCAAATTGTAAGCTTTGACCGGCTGCTGTTTGAAGGTAATGT
TCTGAACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 737>:

GNMLD05TH gnm_737

GTACGGCGTTACCAACCTGCTGCTGCTGGGCAATTTTGCTGCCGCACAAAATAAAATTAT
CAGGGAAAGATTGTAAGGCAGCTAATTCACTAACGGTTAACGCCCGATTCTGTTCATATT
GAAAAACTTTGCGCATATCTCCTGTAATACAAACGGCTGGTTTTGTTGCTGTTGTCACGG
ATGTATTTACGGATATCACCTGTTTTCGGACGTAATGGTTCATGAATATCGTTACGGTTA
CCTCCATTTTTAACAAATGCCATTTTTTCTAACATTTGTGCCGAATGATTCATATCTTCA
TGATTTGCAACGTGTGGATTGCTTTCGCCATCATCCAGTTTTGGAAAATGTCCTATTGCT
GATCCAACAGTCTGATGGGAAATCTGCAAATGTTCAGGAAATGAAATTTTGCCTTTATCC
CTCCTCCCGATAAATATCACTCGGCTACTTATCTTAGGAACACCGAAATCGGCTGCACTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 738>:

GNMLE03TH gnm_738

TCGACATTGCCAACAGCGTCCCGGGTGTTTCGGATAATATGACGGACAACGGCAGAACCG
ATAAAGCCCGCGCCTACTGGCAACAAGTGCCGTCTGAACAGCACGAAGCCTTCCGTTTCC
ACCATATTTCCACCGATGAAGTCTATGGCGATTTAGGCGGCACGGACGAGTTGTTTACCG
AAACCGCGCCCTACGCGCCGTCCAGCCCCTACTCTGCCTCTAAAGCGTCCAGCGACCACC
TCGTCCGCGCGTGGTTGCGTACTTACGGCTTGCCGACCATTGTAACCAACTGCTCCAACA
ACTACGGTCCTTACCATTTTCCGGAAAAACTCATTCCTTTGATGATTCTGAACGCGCTTG
ACGGCAAACCGCTGCCTGTGTACGGCGACGGTATGCAAATCCGCGACTGGCTGTTTGTCG
AAGACCACGCGCGCGCACTGTATCAGGTTGTTACCGAAGGTGTTGTCGGCGAAACCTACA
ATATCGGCGGCCACAATGAAAAAGCCAATATTGAAGTCGTCAAAACCATCTGCGCCCTGC
TGGAAGAACTCGCTCCCGAAAAACCGGCCGGTGTGGCGCGTTATGAAGATTTGATTACTT
TCGTACAAGACCGCCCCGGCCATGACGTACGCTACGCCGTCGACGCAGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 739>:

GNMMC45TR gnm_739

CGCGGGAATGACGAATCCATCCGTACGGTAACCTGCACCACGTCATTCCCACGAACCTGC
ATCCCGTCATTCCCACGAAAGTGGGAATCTAGCTTTTTGAGTTTCAGTCATTTCCGATAA
ATTGCCTTAGCATTGCATGTCTAGATTCCCGCCTGCGCGGGAATGACGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 740>:

GNMMC79TR gnm_740

GCGGCAGACAAGAATGGCTCGAGGCGTTGCGACAGGCCCTGCTTGCATCTAAAATCATTT
CCTACGCACACGGCTTTATGCTGATCCGCGCAGCGGCCGAAAGCTACGGCTGGGATTTGG
CCTACGGCACCACTGCGCTGCTGTGGCGCGAGGGGTGCATCATTCGCAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 741>:

GNMMD20TF gnm_741

ATCCCCGAGGAATCTAGGTCTGTCAGTGCGGAAACTTATCAGGTAAAACGGTTTCTTGAG
ATTTTGCGTCCTGGATTCCCACTTTCGTGGGAATGACGCGATTAGAGTTTCAAAATTTAT
TCTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 742>:

GNMMD36TF gnm_742

ATCCCCAAAATTTTTTTGAGTTTCTCAAAAGCGATATGATTAGACTGTTGAGAGGTGAAA
GTAAAACAACAGACTTTCAATGGCCGCAATTTGATGAATAGCAGCAAGCTGTAGCCTGCA
TGAAACCTAAAATCCATGCGTAAGGTGTGTGCTTCAGCACGCACGCGTTCCATGATTTAC
GGCTCAATGCCGTCTGAAAAGCTCACATTTTTTCAGACGGCATTTGTTATCTAAGCCAGT
ATTCAGCTTCACTATATACCGGCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 743>:

GNMMG74TF gnm_743

GCCAACCTTTATCGTAAACATATTCAAACTGATAGTTCCCGAAACTCTCGATATCCGAAC
TAAAAAAGAAGAAGAGCAGAGTAAGAGGCAATAGAGGAACAAGTAAGAACAAAAATAGCA
AAATTTTCAACTTAGTTAACAATAGTTACCTCTCCTTTAAATTCAATCCTGAAAGGTACC
CCTTACCCGGGGCAACCAATTATAGTTCCCATATTTCAAAATATGGTTTTAACATTACTT
TTTTCCCCCCCCAAGGGAATGCATTTTAAAATCAGGCTTTTCAGGTGCAAACCGATACTT
ACCATTACCATCTTTAACCACAGATATATTTCCAGGTATAGCCCAACGTGAAAAATCGGA
GTATTATATACAGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 744>:

GNMMH29TR gnm_744

CGTATCGACATTTCCATTAATCTCGGATTCGCTCGCGGGACAGAGCAGTGACGATGGAGG
AGCGAGCCAGATGCGCATCGTCGCCAACAGATCTGCAACAACTGCGATCGACCAAACGCG
ATTTGTCTCCGCCACGTCATACCGGCTGATCCAATTCCGAAGAATACAGAGAGCATCATC
CTCCACCATCCGCACGAGTATAAAGCTTGTGCTAAGGAAGGAACCATTGGGAGGATATGT
AACTACGGCGCTTAGGAGCCATTGAACCTGACGGTGAATAAATCGAGAGGAAGCTTATTA
GTGTTTAGAAAGAGATGGTGAGGTTCCAATCTAACTCAATTGATGGGTTAATTTGTTGTT
TCTATTCCGAAGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 745>:

GNMMH29TF gnm_745

GCGAAAGAACAGAAGTCATTGATGAGAACAGGTTTGTCGCGTGTTAAAATAAACGAATTT
TATGTAATAAATACTGGTATCTACATAGAGTATTATAAAACATGCGTGTGATTAATCTAC
GTAGGTAAGCAGCAAATTCAGTCAAAAGAAGAAACATCATCGACCATCTCTAGTGAATTA
CTGAAAACTGAAGAAATTATCTCATCCCCGAGTCAAAGTGAACCGTGGACTGTACTTGCT
CATAAGAAGCCTCAGAAGGACTGGAAAGCTTACAACCCAAAGACAATGAGACCTCCCCCT
CTACCAGAGGGTACCAAATGTGTGAAAGTTATGACTTGGAATGTTAATGGACTGAGAGGA
TTGTTGAAGTTTGAGAGCTTCTCTGCTCTGCAGCTTGCCCAAAGAGAAAATTTTGACATC
TTGTGCTTGCAGGAGACTAAACTCCAGGTCATAACTTTAGACCCTTCTTAAGTTGTTTCT
GCTCTATATTTTAAACACAGCCAATCTAGAAATCTCTTGTACTAAAGACATACGCAnACT
TATGACAGGTGAAAGATGTTGAGGAAATTAAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 746>:

GNMMH47TFB gnm_746

TTGCTGTTCAAGCTGTTTTTCAAGATTCTCGTAATATTCGTACATATAATAAGGGTCTTT
GTACGGTTTGAATGCGGTCTGTTCATGAATGGCTTGAGCTTTCAAAAAGGCGCAGTCGTA
CGCTTCGGGAGCCAAAGACTTGGTCAGCTTGTGATGACTCTGCTCAATCAGTTCAAACAG
TTTGGCTTTGTCCAATTCGGGAAAAATGAATTTCAGACCGTTTGCCGCACGTCCGAACTG
TTTTTTTACCCATTCACAGTATCTGTCGGCTGAAATCGACTTATCTTCCTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 747>:

GNMNA66TR gnm_747

GGTAATGATGAATGATAGTTTTACAAAAGTTTCGGACTACAATTTATACGTTTATAATAA
TAACAATATCCATCAAAAAAATGTGATTTTTCTTTTTTTAAAAGTTGCATCTTGCCATTC
TTGTAATCACATTCGTAATATTCAGCATTTTTCAAATCTGAATCAAATAGATATTGAGGT
AAAACATTCCCTTCCTTATCTAGTTCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 748>:

GNMND11TR gnm_748

GGCGCGGGACCCATGCTTTGGATGCGGTACAGCCGTCGCGTTATGTTTTGGGGTTCGGAT
ACGACCAGCCTGAGGGGAAATGGGGCGCAAACATTATGCTGACCTATTCCAAAGGGAAAA
ACCCTGACGAGCTTGCTTATCTGGCAGGCGATCAAAAACGATATTCGACAAAAAGAGCGT

CGTCTTCTTGGTCGACGGCAGACGTTTCCGCCTATCTGAATCTGAAAAAACGGCTGACCT
TGAGGGCGGCTATCTACAATATCGGCAACTACCGCTACGTTACTTGGGAATCCTTGCGCC
AGACTGCGGAAAGCACGGCAAACCGGCACGGCGGCGACAGCAACTATGGAAGGTATGCCG
CACCGGGCAGGAACTTCAGTCTCGCGCTTCGAAACGCGGACGTTGTCCGCAGTGGAGCAT
ATGGACGGCATAATCGTTTAAAACGGTTTGGnGAAAGTGTGAAACCAATACGTCGCAAGG
TAnCAGCAAGCTGTCGCGTTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 749>:

GNMNE46TF gnm_749

TATCTGAAAGTCCGAGATTCTACATTCCCGCTTTCGCGGGAATGACGAAAAGTGGTGGGA
ATGACGGTTCAGTTGCTACGGTTACTGTCAGGTTTCGGTTATGTTGGAATTTCAGGAAAC
TTATGAATCGTCATTCCCGCGCAGGCGGGAATCTGGTATTTCAATGCCTCAAGAATTTAT
CGGAACAAACCAAAACCCTTCCGCCGTCATTCCCACGAAAGTGGGAATCTAGAAATGAAA
TGCAACATGAATTTATCGGAAATGACCGAAACTGAACGGACTGGATTCCCGCTTTTGCGG
GAATGACGGGATTTTAGGTTTCTGATTTTGGTTTTCTGTTTTTGAGGGAATGACGGGATG
TAGGTTTTCTTAAGCCTGCGTCCTAGATTCCCGCTTTTGCGGGAATGACGGGATGTGGGT
TCGTGGGAATGACGTTGTGCAAGTTTCCGTGCGGATGGATTCGTCATTCACGCGCACGCG
GGAATCCAGACCTTATTGCAACAGCATTATTCAAACATTATCTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 750>:

GNMNE50TF gnm_750

CCCTGCAATAAAAAGATTCCGTTTTTCAAATAATATTCGAAACTCTGGCGTTTTTTTCCA
CTGTCGAAACTCCAATAGACTTTTTGCGGAAGACCGTCCGCATCATAGCCGACCACAAGA
CTGTTCGCCTTCATCCCTCGGGGCATCACTTCCCGCATACTCTGATAATCCACAGAATTG
CGCGAGTCCGACGCAGTTCGGTTGCTCTCTTTGCGGAAGTCGCAAACCTTCTGCTCGTCA
TTCGCGACATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 751>:

GNMNE80TR gnm_751

CAGGTCAAAAACCTTATTGCGTCTGGCTTTCCGAAATCATGCTCCAGCAAACGCAAGTCG
CCACCGTGTTGGACTACTATCCGCGCTTCTTAGAAAAATTCCCGACCGTTCAGACGCTTG
CCGCCGCGCCGCAAGACGAAGTGTTGTCGTTGTGGGCGGGCTTGGGCTATTACAGCCGCG
CGCGCAACCTGCACAAAGCCGCGCAACAAGTCGTCAGGCAATTCGGCGGCACGTTTCCGT
CGGAGCGCAAAGACTTGGAAACCCTCTGCGGCGTAGGCAGAAGCACCGCCGCCGCCATTT
GCGCCTTCTCCTTCAACCGCCGCGAAACCATTTTGGACGGCAACGTCAAACGCCGGTAGC
GTCCAAGGCGTAGTCGTCCAAATGACGGCAAACGCTTTGCCTTCGAAACCAGCCAAACCG
AATGCGGCGGCAAGCGCGGCAGTGTCTTTAAACAGATAGGCAACGTCAATCGCGGGCGAG
ATTTTGTCTTTGTATTCCACTTCCGCTTCGGCCAGCGAAGAACCGCAGTCCAAGCAGAAT
TGAACCGGTTTCGCACCCCGGTAGAGATAGCCGGATTTGTAGATTTCGCCGAGCATACGC
ACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 752>:

GNMNK53TFC gnm_752

GTCGACTCATAGAGGATCCACGAATCTAGACCTTAGAACAACAGCAATATTCAAAGATTG
GCGGATTCGCATTTGAAGTGCAACTTTCCCTAACAGAAAAAGGCCAGTATGCGGTAGCAT
ACGGCCTTTCCTGCAAGAAAGATTGCCATGAGCTACACGCAACTGACCCAAGGCGAACGA
TACCACATCCAATACCTGTCCCGCCACTGCACCGTCACCGAAATCGCCAAACAGCTGAAC
CGCCACAAAAGCACCATCAGCCGCGAAATCAGACGGCACCGCACCCAAGGGCAGCAATAC
AGCGCCGAAAAAGCCCAGCGGCAAAGCCAGACTATCAAACAGCGTAAGCGACAACCCTAT
AAGCTCGATTCGCAGCTGATTCAGCACATCGACCCCCTTATCCGCCGCAAACTCAGTCCC
GAACAAGTATGCGCCTACCTGCGCAAACACCACCAGATCACGCTCCACCACAGCACCATT
TACCGCTACCTTCGCCAAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATA
TGCAGCAAACCCTACCGCAAACGCTACGGCAGCACATGGACCAGAGGCAAAGTACCCAAC
CGTGTCGGCATAGAAAACCGACCCGCTATCGTCGACCAGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 753>:

GNMNL81TF gnm_753

GCGGGAATGACGGCAAAGTGGCGGGAATGACAGATCGGGCATTCCTTAAATTACCCGTGT
ATCGCTGTAAATCTTACAGATGGCGGCATATAGTGGATATCCGCAAAATCGGCGCGGAAA
CAGGGGTAACCAAAATCCACCTCAACGTCCACGTCAACCACGACCGTGCCGACGCGCACC
GCCTGTATTTCAAAAACGGTTTTGAAATCTGCGCATACCACTTCCGTTGCGACCCCAAAT
GAAAACCCCCCTCCCCATCTGCACCCTGTCGGCACTCGCCGCCTGCACCCTTTCCGGACA
AGGCGGCAGCAGGGTTTACGGCGAAATCAAAGCCCGAGACCTTTGCGTTACCGCTCCTAT
CCTGCTTTCTGCTTTCTGTCTTGCCTGCTCTCGTTGAGCCAAGCGTTCTTGCAAGCTCGC
TTGCACGTTGGCAAGCATTGCACTCTATCCGCTTTCTTTTCCTGTTGCGGCTGGTGGTTC
AGGCTCGCGTTGTACGCTTTGCACTAAAGCGCACCGTGAATCGATGCTCGCTATTTATTC
TATCAATATTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 754>:

GNMNN48TR gnm_754

TTGGGAAGTTGTCCGTGTCGGACACGTTTTGTGTCTGACCGTTATGTAGAAGGGCAAAAA
TGATAATGACCGCCCCGTTGCGTTTTGGAGAAGAGGGTAAAGGCAGAAAGCATATGCCGT
CTGAATGATATTTCAGACGGCATTTTATATTGCGGCGGCACTCAGTCCGTGTCGCTTTCA
GGCAACTCTGCCGAACCCATGCGTTTGAGCACGATATTGGTTTTGTTGCGGAGCCGTTTG
CTTTTCGGATGGTCGGCGTAGTAGAGCGGGGCGGGGACGCGCGCCGTCAGTTTTGCCGCC
GTTCAAAAAGCCAATTCCGGCCACCCCGGCGCGCCTATGGGTATGGCGGAAATGGCGGAA
ACATTGTGGACGAAATTCCTCAATCACAACCCCGCCAACCCCAAATTCTACAACCGCGAC
CGCTTCGTCCTCTCCAACGGCCACGCGTCTATGCTGTTGTACAGCCTGCTGCACCTGACC
GGCTACAACCTAAGCATTGAAGACTTGAAAAACTTCCGCCAACTGCACAGCAAAACCCCC
GGCCATCCCGAATACGGCTACACCGACGGCGTGGAAACCACGACCGGCCCGTTGGGGCAA
GGGATTGCCAACGCGGTGGGTATGGCATTGGCAGAAAAAATCCTTGCCGCCGAATTTAAT
AAAGACGGTTTGAACATCGTCGATCATTACACCTACGTCTTTATGGGCGACGGCTGTCTG
ATGGAAGGCGTATCGCACGAAGCCTGTTCGCTCGCCGGCAACTTGGGCTTGGGCAAACTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 755>:

GNMNQ41TR gnm_755

AAAAGCGGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC

AGGAATTCGGCACGAGAAGGGACTTATTACATTGGTACAGACATATTTATGCTTTCTTCC
ATCACCAACCACTAAACCCCTTTGGAGGAATGAAATAACTGCATAAACTAGTCAACTGAA
CACTGGGCCACTTACCTCAATGTTATACAAAGTCCTGGATGATTTGATTCTGAACCACAG
CCTTTGCAGGAGTTGGGGGAATCAGATTTGCTCATGAAGACATCCCTTTCCACTTTTGTC
ATGGGCAGTAAATACTATAGTTTACAATGCCTACCAATTAGCAAAGGATCATTCATTCAG
CTACTCAGTTCCTCTGTAAAACAGGTCTATGTATGTGCAATTCAGCTAAGATC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 756>:

GNMNQ41TF gnm_756

TACGACTCACTATAGGGCGAATTGGGTACCGGGCCCCCCCTCGAGTTTTTTTTTTTTTTT
TTTTTTCTGTATTGAAACTTTATTACAAAATTATAAAGCAGAGCTCTGTAACAAAATAAT
ACACATTTGGGTTTGCTTTAACCTCCAAGTAAGTCTGAGAAAATCTTAATAAAAGCCACT
TGAAGTAACAATTCACATCCAAGAGATTTCCACAAATTTATACAATGTATATTGAGCACT
AGTTCCTGTACAGCTTATTCTTATTAGTTTGGATCCAACTATTCCAATGTATTATGAACC
AGTCAGCTATCTGTCTTTTGAAACAAGTCTTAACTGAAATCTCAGAGTAATCAGCAAAAG
CTACGGAATAATTCTAAGAATTAGATGTTTCCATATCATTAAAACCAAGGATCCATGAGG
GGCAGAAGGGAGGATTCAAAGATTTAAAAAAAATCAAATTTTAGACCTTGGTTAAATATT
AACTGGAATGGGATCTTGGAACTCCCAACTTTAATTTGGTGTAATAAAAATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 757>:

gnm_757

TGTTTCCCTCTTGACAACGGACGTTAGCACCCGCTGTCTGTCTCCCGAGGAACCACTTGA
TGGTATTCTTAGTTTGCCATGGGTTGGTAAGTTGCAATAACCCCCTAGCCATAACAGTGC
TTTACCCCCATCAGTGTCTTGCTCGAGGCACTACCTAAATAGTTTTGGGGAGAACCAGCT
ATCTCCGAGTTTGTTTAGCCTTTCACCCCTATCCACAGCTCATCCCCGCATTTTGCAACA
TGCGTGGGTTCGGTCCTCCAGTACCTGTTACGGCACCTTCAACCTGGCCATGGATAGATC
ACTCGGTTTCGGGTCTACACCCAGCAACTCATCGCCCTATTAAGACTCGGTTTCCCTACG
CCTCCCCTATTCGGTTAAGCTCGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 758>:

GNMNR06TF gnm_758

GCTCGGCTCATGGAAACGAAATACATCGTATCTGCACTCAAATATCGCCCCGATTCTTTT
GCCTCGATGGTCGGTCAGGAGGCATTGTCCGCTACACTCAAAAGCTCCATCGTACAGCAA
AAGACAGCTCACGCCTATCTCTTTTGTGGCCCGCGTGGGGTGGGAAAGACCTCTTGTGCA
CGCATCTTCGCCCGTGCCATCAACTGTCTGGAGCGGTTGCCGGATGGAGAAGCTTGTGGG
CGATGCGAGTCGTGCAAGGCTTTCGATGAGCAGCGATCCATGAATATATATGAACTGGAT
GCCGCTTCGAACAATTCGGTAGATGATATTCGTCTCTTGATAGAGCAGGCCAATGTGCCG
CCACAGATCGGGAAATACAAGGTCTACATCATCTACAAGGTACAAATGCTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 759>:

GNMNR07TF gnm_759

GAATCAATGGAGAAAGTTTGATCCGATGAGATAACGGTCGTCCAATCGAAAAGTCTGAGC
CTTTCATAAATTTCATCTGTCGTCTTCGCATGGAAAGTTATTACAGGTTTCAATATGCGC

AGTGCTGTACGCAACCGGAGATTAGCAAGATAGAGCATCCTCTTATCTCCTCGAAAACTG
ACCATACGCCGGCCGACGGTTACCTCCTCAGCACCCAAGGCTGTTAGTTCGGCAGCCAAG
ACATCCTCCAACCCATAAAGGGTCTTAGCTACCATAGTAAATTGGAGATCGTTATTCATA
ATAGTCCATGATTATGGAACAAAGATAATGAAATACGGCCGCAGTTTATGGCTTTTTGAG
ACCTGTACGGAAGTGTGTAGATTCCAGCTATCAAGGCTCGCATTTCAGCCACTAACGTAC
ATCTAAAGCTCATGATGCTACGCTCGGTTATCAAACAAGTACGAATCCATATATCAGAGA
TTCAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 760>:

GNMNR12TF gnm_760

GTACTGCTTATAGAGATGGCTTCCTGTTTTCGTATAGCCCCTTGGATGGCAACGATACGG
TCTTTAATGCTTCTCTGCTTGGAGCGCGTCTCTTGAGCTATTGCTACCATTATACCAAAG
ACGAAGCGTATCGCACGCTTGCGCGCCAAACGATCTCAGCTTGCTGTGCTGCACAAGCCG
AAGATGGTTCGTGGGTCTATGGGATGCTACCCGTGCAGTCATGGATTGATAGCTTCCATA
CCGGCTACAATTTGGATGCACTGATTGCCTATCAAGAGCTAACGGnGGACATTTCCTTTG
CCGAGAATATAGAGCGTGGGTTGTCGTATTACTTAGAGCATTTCTTCGAGGCAGATGGTA
TGCCCAAGTATTATCACGATCGTACTTATCCAATCGACATTCATTGTCCTGGTCAGCTCT
TCGTGTCGCTAGCTAGACTTCATCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 761>:

GNMNR14TF gnm_761

GGAGCGGGCGCAGTTCCTCCCTGCGCTGGACGAAAATAGCATGAACAACCTCTCGGAAAA
CAGCCTGAACGAAGAGAGTCGATTGCTTTGGGACGGCTCTTCGGATTGGGCAGAGGCACT
GACCAAGAGGATCCGCCATCAGGATCGCTTCCCCTATCTGATGCTTCGTTTTATCGAGGA
GATGGATCTGCTCAAGGGTATACGCTTTCGTGTCGATTTGGGTGAAATCGAGCTGGATTC
TTACTCCAAAAAGGTAGGCCGGAATGGTGAGTACGATCGCACGATAACGGATCATGCCTT
GGCATTCGGCAAGCTGTCAGACTTCCAGAATGAAGAAGAGGTAAGTAnGATGATCAGTGG
AGAAGCGTCTTATCCCGTACGCTTCTCTCTCTTTGCTCCCCGCTATGCCATATACGACAA
TAAGATAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 762>:

GNMNR20TF gnm_762

GAAAATACAGCCTTTTCGTTTTTACCGGTCAAAATAAAATCTTCTGAATACTGTCCCATA
ATCATATTTGTTAATGGTCAAATATAATGAAAGAATGTTTTGAAAACCAATATGAACTGT
TGCATGGGAGTTTCATTGAGCTCTTTTGCTGCAGAGCAGATTCTTAGTGTCTTCGGGAAA
GGTCAAACCTCCGGTATATGGGCACACCAAGCAAACAGAAATTTTCCCAAGTTTCCATTA
GAGAAGTACTCCTTTCCTCGTCAAATAGGCGAGAAATAAGAAACGATTGTCAGCTGATTC
TTGCTTCCTGCATGATGCAGGACGCGATTGTCAGCTGATTCTTGCTTCCTGCACGATGCA
AGACGCGATTGTCAGTTGATTCTTGCTTCCTGCACGATGCAAGACGCGATTGTCAGCTGA
TTCTTGCTTCCTGCACGATGCAAGACGCGATTGTCAGCTGATTCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 763>:

gnm_763

ATTCCAGAGTACTTAACTACGGTTTTAAATGTACCTTTTTATTTGGGTGGCACGTCTTTG
TTGATTCTAGTTGTTGTAACGATGGATTTTAGTACACAAATAAATTCGTATAGGCTTACT
CAACAGTATGATAAGTTAATGACTCGTTCAGAAATGAAATCATTTTCTCGGAAATAGAAT
TATGGCGAAAGAAGATACTATCCAAATGCAAGGTGAAATTCTTGAAACTTTACCTAATGC
AACATTTAAAGTAAAACTTGAGAATGACCATATTGTATTGGGTCATATTTCTGGGAAGAT
GCGGATGCATTACATTCGTATTTCTCCGGGAGATAAGGTCACAGTAGAGCTGACACCTTA
TGATCTAACTAGGGCTCGAATCGTTTTCAGAGCAAGATAAACCAATAAAAGGAAAATAAA
ATGCGTGTACAACCATCTGTTAAGAAAATTTGCCGAAATTGCAAGATTATTCGTCGAAAT
CGTGTAGTTCGTGTAATTTGTACTGATCTCGGTCACAAACAGCGTCAAGGTTAATGGAAT
ATTTCTTGTAATGTGATTCTGTGATATAGTGACACACTTTGCCCTAAAAAGGAAAAAATA
TGGCTCGTATTGCAGGGGTAAATATCCCTAATAACGCACACATCGTAATTGGTCTTCAGG
CTATTTACGGTATTGGTGCTACTCGTGCTAAATTGATTTGTGAGGCTGCAAATATTGCGC
CTGATACTAAAGCCCAACATCTTTTGAGCAACAGAGCCCGTTGATAGCCACAGCTGTGTA
TGGTTAAAATTCTGCCCAGAATCAGAAAGAAGAGCGTACATTTTGGAGAGCAGTCGACCT
CTAAGATTTTCAGGAAGACGTTTTGTTATTTGTTCGCAAAAACTTCTAACAAATGGACAC
TCCCACATAATATGTCAACGTGTTCCCATTTGATTCAAATTAAATAGGGTACAGTTTGGA
GAATAGGCCTATTTGAATAAAAAGTATGCTCCTTAGATTTGGGATTGTGTGTCCCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 764>:

GNMNS04TF gnm_764

ACACTGATGTTACCGGGCATCTTGCTCCAGTTATAGGTCTCACCGAATGTGCCTGAATAG
TGGGTATGCGTCCCCGTCATATCATCGTAGTAGTCATATTCGCCGGAAGCCTTCTCCGGC
CACTTGTAGTGACGCATGATTTGTCCCATGGCAGTGGCAACACAACCGGTATAAGCCTGC
TGCCCGGAAGGAAGCAGGGGATGCAAGGTGTTAAATGGATAGCCCTGATCCCACAAGATC
GGATCCGATGCATGTTCGCCCGTTTCCAAAATAGGGGCAATGGATGATGGCAGGTCCCGT
GTAGGCTTGGCTTCACGGATAGGATCTATCGGCTCTGCCTTGCCGTCCATTACAGCAGGC
ATTTCACGTTCATAACCTTTGTGCCACCCTCTGATATTGTCCGGTATACGGGCCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 765>:

GNMNS06TF gnm_765

GAAAAGAGAGCTTCATGCGATCTCTCTGCAAACCTCAAGTAATCTGAAAAACACTTAAGA
ATCAGCTCTGCGGCAAAAGACTTCAATGAAAGTCCTATAAAATAGTTGCAAATAGCTGAT
AGTTAGCGCATTGATGGGAGCAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGGGAG
CAAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGGGAGCAAGAATCAGCCGACAATC
GCGTCCTGCATCGTGCAGGGAGCAAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGG
GAGCAAGAATCAGCTGACAATCGCGTCCTGCATCGTGCAGGGAGCAAGAATCAGCTGACA
ATCGCGTCCTGCATCGTGCAGGAAGCAAGAATCAGCTGACAATCGCGTCCTGTATCGTGC
AGGAAGCAAGAATCAGTTGACAATCGCGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 766>:

GNMNS08TF gnm_766

CACTTTCACTTATACATACCCCGTTAAATAAGTTAAGAGGGAAATATGAAAAGTGTAGTA
ACAAAGCAGGCCCTCATCGGCCTGCTTTTCTTTAGTATAAGTATATACTCCCATGCGGCC
AACCCTCCGGCCCAACCTACCGACACCATCGTATCCGGCAATATCGCACTTGAGGATATA

GTGGTGACCGGTAGCCGTACAGCCCGTCTGCTTAAAGATGTACCTGTCCCCACAAAGGTG
TTCAAGGCCAAAGATATCAAAGCTATAGCCCCATCTTCTTTCATTGACGTACTGCAGTAT
ATTCTTCCCGGGATCGAGTTTACCAAGCATGGTTCCAGAGATCAGCTCAATGCTCAGGGA
TTTGACGAAAGTTCTATTCTCTTCCTCGTCGATGGCGAATTGATTTCAACGGGATCTACC
AGTGGAATAGACTTCGAACGAATCAATCCGGATGACATCGAGCGAATCGAAGTGCTTCGT
GGAGCTTCCTCTGCTTTGTACGGATCTAATGCCATCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 767>:

GNMNS13TF gnm_767

GAATGGAGCAAATGAAAAAGCGATTCTCTGGCAATGTCCAAATGCATCTCAATTTGGACG
AATGCAGGAATGAGTTACTTGTACCTGTTTTAAGTGCTGAGATACAAATGCAGGTTAAAG
AGCTGTTTGAATTATCCATGCAAAAGTCGACAGAGGGAATATCCCTCTACTCCTCTGCTG
AGAGCTATCTATTGGCGTGCTTAGGGATGCAAGACTTTGTAGCCAATATAGATGCTTACA
ACGTAAAGACACTCAAAGAGAGCTTCCTTGAAAGTGGACGCATTGATGCAGAGTATTATT
TGCCTAAGTATGAGGATTACATCAATGCAGTATCGGCATACACTGGCGGTGTCGCTCCTC
TTGGTGAGGTCTGCACCATTAAAGACAGCAACTATACGCCAGAATGTGATATGAAGTATC
GCTACATTGAGTTGGCTAATATTGGCAAGTCGGGCGACATTACAGGCTGTTTGTACGAAA
ATGGTGAAGACCTGCCCACACGTGCAAGGCGTATCGTAACCCAAGGCGATGTTATTGTTT
CATCTATAGAGGGGTCTTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 768>:

GNMNS15TF gnm_768

ATCGAGTGGTTGCAGGTGGAAATACACGTTTCGCCTCTGTTCGGAATGGATTGCAGGTTG
TCCCTGATGGTGTTTTGGTTGCTGTTCATGACGGGGTACGTCCTTTGGTCAGTGCTGAAA
CTATCGATGCCTGTTTCGATCTTGCAGAGTTGAAGGGGGCTGTCGCTCCTTGTCGCCCTA
TGACCGAATCGCTTCGCTATTATGCCACTGATGGCAATTATGCAGTGGACAGGAGTCGGT
ACGTCACGGTACAAACTCCACAGACCTTTCGGAGCGAATGGCTTCGAGAGGCCTATCGGC
AACCCTATGAAGAGTATTTTACCGATGATTGTTCGGTATATGAACACCATTTTGGCCGAC
CGGTGGCATTGATTGTCGGTAATATCGAAAATATCAAATTGACTACTCCTCTCGATCTAT
CCCTTGCCAAACTGTTATTGACATCCTAATACCTAAAAAACATAAGTTACATCTCCACAT
TGTGGAAGAATACAAGACAAACTTAATCGAAGACCTCGAAAAGGGCTAGGGCAACTAACG
CCATGCCAAGTTTTAGAACTAACTTAGCTACTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 769>:

GNMNS17TF gnm_769

GGCGTTTCATCATCTCATGTGCCCTCGATGTAAGCACAGTGTATATACCACCCTGCTTAT
TGCAAACCTCCCAGCTCGTCTCCAGCAAGAGGGAAGGGTTGGGGCGAAAATCATTCATTC
GATCGCAATTCGTTTGGGAAAGTTTTTTCCGGTCTTATCCTCCGACCAACCGCCATACAA
AGGCCACGGCTACGGTCACAACGAAACCTGTGGCAAGCGGAATCAAGGCTGCCAGCAGCG
TCCATTTCCGGCTCCCCGTCTCTTTATATATGTTAAACAGGGTGGTGCTGCAAGGATTGT
GGAGTAGGCAGAACAGCATGAGATTGATACCTGTCAGCATAGTCCAACCGCCGGCTTCGA
ACAGTCGTGCCGTTTCGGCTGTGCCATCGGCTTCGAACATGACGCCGGCACCGGTTCCTC
CATCTATTCCCGTAGTCAGGACAGTCAGCATCAGTATCGTCGGTATCACTATTTCATTGG
CCGGAATGGCCAATACATAGGCCAGCAGAATGACACCGTTGAGTCCCATCAGCCAACCGG
GTCCGTCCAGCAGGTCGATCAGATATTCGGCTATCCCGACTCCACCGATTTGGATGTTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 770>:

GNMNS19TF gnm_770

GACGGACGTATCATTTTCATAGGCCCCCTGCTAACGGAGCAGGAAGACTTACCCACCGAT
TTTGAGAATACAGTCCCTGCCATCTTGGAGGACTGGCATCGTGATGCAGCACCCTCGCTG
GACTTGCGATATGTGTGCGGCAGCTGGCGAACTCCCGGTTCTCCCCCTGTAGTACTGGTG
GACTTCGAACCCCTCCATGCACAGAAAGCAACGCTCTACTATGAGATGTGGGAGCACTTC
GGCATCCAAAGCGACAAGGGGTACGGCGACTATGACGAGGCCTCGCTCTTCGGCATTGCC
GCAGCCCAAACGATGCATAGCCTGTGTGAATACCTCTGCCCCGAAGACCAACCGGCCATA
GGTATATTCAACGAATGGATGCTCGGCATGGGACTCCTCTACAGCAAGCGGAAAACACCT
CGTCTGAAAACCCTTTTCCTCACACATGCCACCACCACAGGGCGGTCTATCGCCGGCAAT
AACAAAGCTCTGTATGCCTACATGCCGGGCTACAACGGCGATCAAATGGCTGCCGAACTC
GGTGTAGAAGCCAAACACGGGATAGAAAAAGCGGCGGCTCACCAATCGGACACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 771>:

GNMNS23TF gnm_771

GACTTCACGGTTGTTTTCGAAGAAACGCCTAACGGAATAAATAAGGGCGGAGCAAGATTC
GGTCTTTCCACGGAAGCCAATGGCGCCAAACCTCAAAGTGTATGGATCGAGCGTACGGTA
GATTTGCCTGCAGGCACGAAGTATGTTGCTTTCCGTCACTACAATTGCTCGGATTTGAAC
TACATTCTTTTGGATGATATTCAGTTCACCATGGGTGGCAGCCCCACCCCGACCGATTAT
ACCTACACGGTGTATCGTGATGGTACGAAGATCAAGGAAGGTTTGACCGAAACGACCTTC
GAAGAAGACGGCGTAGCTACGGGCAATCATGAGTATTGCGTGGAAGTGAAGTACACAGCC
GGCGTATCTCCGAAGAAATGTGTAAACGTAACTGTTAATTCGACACAGTTCAATCCTGTA
CAGAACCTGACGGCAGAACAAGCTCCTAACAGCATGGATGCAATCCTTAAATGGAATGCA
CCGGCATCTAAACGTGCGGAAGTTCTGAACGAAGACTTCGAAAATGGTATTCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 772>:

GNMNS25TF gnm_772

GGCCGATAGATTTCTGCGGATGAATAAGACCGAGTGCCTTTCGCGAATTTGCGGTAATGC
CCATTCCCAGAATTTCACCGGCACCATTTCGGCCATGTCACAGCGGCATCCATCGATTCC
TTTGCTTGCCCAAAAGAGCAGAATATCTCGCATCCGAATCCACGTGTCCGGTAGAGGATC
GAAGTGTTTGCTTCCTCCATTCAGGTACACGATGCCGTACTTCAATTTCACCGTTTCGTA
CCAATCCTCCTTATCGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 773>:

GNMNS28TF gnm_773

GAGTAAGAACAACCGGTCGAGTAGCTGCTGCCCACTATCCGGGCGGCTAAAAAGCAGATC
GGTCAGTTCATCGCCCCAAAGTCTTTCCTCCGGTACGTAGTACTGCTTGGGTACCTCCCT
ATTCCAGAGGAGATCACGCGAATGATCTGTCAATAAGGGAGTGAGAAGAACACTATTGAG
CAAGTCAAGAACAGCATCTGTCCGAAAATGAGGAACTTTTTGAATAAGACGGATTTCTGC
CTGTACCCTGATCCACTTCTCGACAAAAATGGAAATGGCACTTTGAGAGAGAGGGATAGC
CCATAGTCACATTGATACGTCCTACAGTCTCGGCCAGACTGTTCAATACGGGCATCAACA
TTCCTGTATCGGGAAGAATGATAGCTGTTTCTATTCCTTCTTTGGTCAGAATAGCCTTCA

GGGTATAACTCCTCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 774>:

GNMNS30TF gnm_774

CACTTTCAATACTCAATTCATTCTGGCCTGGCTGTTGATCTTTTTGGGTATTGTCCTGTT
TGGACGGTTGGGGCTGCTGCTGTCCGCCCTGGTTATTGTTATTCGGATTGTTTTGCCGTT
GTTTTTTGTCGTGATTACTCTCCTTATTCTGATCCTGATTGTCTCCTCCTCCTTGCTGTT
GCTGTTTCTGAAGCAACTTCATGGTCAAAGCCAGATTGTAACGAGTCTCTTCATCGGTCG
GGTTGATTCGGAGCGAATGCTTATAGGCCTCCACACTCTGCCGATAGTCTTTCTTTTTCA
TAAAGGAGTTGCCGAGATTGTGCATCAGTTCGGCTCTACGCTTAGGTGTCAATGTCGGGT
CTTGTACAAGAGCAGCATAGTTTTGGAGAGCTTCATCGGTGCGGCCTTGTGCATACTGTG
TACCGGCCAAACCGAATCGTGCCTCGGTGAAAGTACTGTCCTTGGAGAGAGCTTTGCGAT
ATGCGACCTCGGCATTGGCATATTGATGGCGTCGATATACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 775>:

GNMNS34TF gnm_775

GGGACTGCTTTCCGACTTGAAAAAGAAAGCAAAGAGGATGGCGATGACCAATGCATAAGC
TGCGAAAATATACCATACCGTGCTCCAAGCCGTATGACCGGCATCCGTAAAGCGATCTAC
CACCCAACCGCTGGCAAATCCGCCGATGATAGCTCCGATACCATTGGTCATTATCATAAA
AAGGCCTTGAGCAGCTGCCCGAATCGATGGTGTAGTCTCTCGATCGACAAACATGGAACC
GCTGATATTGAAGAAATCGAAGGCCATACCATATACGATCATCGACAGAACGAGGAAAAT
GAAGCCGCTACCCGGATTGCCGAGACCAAAGAAAGCGAAACGCAACACCCAAGCCAACAT
ACTCATAAGCATCACCCGTTTGATCCCGAAGCGCCCCATGAAAAACGGAATGGTCAAAAT
GAAAAGAGTCTCGGAAATCTGCGACAAAGAAAGCAACACATTGGGGTGCTGAACGGCAAA
GCTCTCGCTATAAGCATCCGCAAAATGAGACAAAAACGGATTGCCGAATGTATTGGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 776>:

GNMNS37TF gnm_776

GTCTGCGGCAGGTATGCCAACAGGATTGCCCGCGGTTCTTTCTCCATAGACGGCAGATGC
TACAGCCTGCCGATCAACAATGGGCCGAACTCTCTGCATGGCGGCATCAGCGGATTTAAT
ACGAAGGTCTGGGAGGTGAAATCCGCCGGCCCCTCTTCGCTTGTGCTGGAATACGTGTCG
GCAGATGGAGAGGAGGGGTATCCGGGCGAGCTGGTCGTTCGGATCATTTACAGCGTCACG
GATGAGGGCGCATTGCACATAGACTATCGTGCTACTGCGGATGCTCCTACGGTTCTGAAT
CTGACCAATCACTCCTATTTCAATCTCTCGGGTGCAGGCGATCCCTCCGTGCATGATCAT
ACCCTCATGATACAAGCCCGGCATTATCTCCCCACAGACGATACGGCCATCCCTTACGGC
GAGCCTGCCGAGGTCGAGGGGACGCCGTTCGATTTCCTCACGCCTCACGGCATAGGGGAT
CGGATCGACAGTGCGATGGATCAGCTCATTTGGGCAAAGGGATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 777>:

GNMNS39TF gnm_777

CTCTCCTATCGTCAGTCCATGAAGAATAGGCAGCGGATCCACTCCGACAAACGAACGGCA
ATCATCTTGTAAGATGGGACCATCCACGTAGTCGTTCGGGTTCGGCCGATCAGTAACGAT
CAGCTTTTTCTGCTCCTCGGCACAAGCCTCCATCACATAGTGCAGCGTACTGATATAAGT

AAAGAAGCGAGTCCCGACATCCTGCATATCGAATAGCAGCACATCGACGTCGGCCAACAT
TCGAGGAGTAGGTTTCTTGTTTTTGCCGTAGAGCGAAACGATAGGGATTCCCGTCCTGAC
ATCCCGTTCATCCTTGACCGTTGCCCCGGCATCGGCATCTCCACGGCAGACGTGTTCAGG
ACCTAGGATCTTGCAGACATTGCATCACTGCCGAGGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 778>:

gnm_778

CCCCCCGCTTTCTCTACATAAAATTACATTTTGCCGATATTTGCCGAATTGTCTGAAAAT
ATGTGTAATAAGGGGCGTATAATCAAAACATTTGCCCCGGATTGCCATGCCTTATTTCGC
CCTGTTTGACGATGCCGTAAGCGGCCGCGCAAAACGCTATCAAAATCATGTGGAAAGCCG
TTTTTTCCGTCCCGAAGAACTCGATGCTTTGGACGGCGCGCTGCAATCGGGCTGGCAAAA
AGGGCTGCATTCGGTGTTGTTTGCAGACTACGGATTCGGTTTGCCGCTGACGGGGGTTGA
GTCCGAACGCGGCGGCAATCTTGCCCTGCACTGGTTTGCCAACTGCGCCGACATCGATGC
CGAAAGCyGGCTTGCCCGACACTCAGATAGCCTCATGCGTGGGCCATCGACATGCATGAG
TTAAGCGTATCGCTAGCGTTCATCCTGAGCCAGGATCAAACTCTCCACTGTCATATTTGT
GTTTGTTTGCTTCTGTTTTTCTCGCTCAGACGCCGATTATTACCCTTTGGATAATTCGAT
TTATCAGGTAGTACACCTCGGTTTCTTTTTCTCTCTCGGTCTTTTCGTTTTTCCTCTTTG
ACAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 779>:

GNMNS42TF gnm_779

GCTGGTTCAGGCTCTCGCCCATTGACCAATATTCCTCACTGCTGCCTCCCGTAGGAGTCT
GGTCCGTGTCTCAGTACCAGTGTGGGGGATAAACCTCTCAGTTCCCCTACCCATCGTCGC
CTTGGTGAGCCGTTACCTCACCAACAAGCTAATGGGACGCATGCCTATCTTACAGCTATA
AATATTTCCTTGTAATATCATGCAATAATATAAGTGTATGCGGTTTTAGTCCGTCTTTCA
GCCGGTTATCCCCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 780>:

GNMNS49TF gnm_780

GCCGACTGCCACGGTGCCGGCTGTCGGGTGACGATCGGCCGGGCCGAAGTCGGGATGCCA
GTCGGCTTCGTGTATCTTCTCTGCCATGCCTTCGAACTCGCCTTTGCGGATCTTGGCCAG
GTTTTCACGGTGGGGAGCGGTAGCCGATTTCTCATAGAGGAATACGGGCACGCCGTACTT
CTCGCCTATCGTGCGGCCTACCTCCTTGGCGAGGGTGTCGGCGTCTTCGGCAGTCACATT
CTTGATGGGGATAAAGGGGATCACGTCCACTGCGCCCATACGGnGGTGCTGACCCGTGTG
TTTGGTCAGGTCGATCAGCTCTACGGCTATGCCAACGGCTTCGAGCACTGCCTCCCGAAG
GGGCTCGGGTTCGCCCACTACGGTCACGACGAGACGGTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 781>:

GNMNS51TF gnm_781

CCCTTCGTGAGGAAAAGACCGGTGGATTCCACTACGTATTCCACTCCGACTTGATCCCAT
TTCAGATCGGCAGGGTTCTTCTCAGCTGTAACTCGAATGGCTTTCCCGTTTACTATCAGC
TGACCATCTTTGACTTCGACTGTCCCATTGAAACGACCGTGTACACTGTCGTACTTGAGC
ATGTACGCCATATATTCCACATCGATCAGGTCGTTGATGGCTACAATTTCAATGTCGCTT

CTGTTTTGTGTTTGTGCTGCGCGGAATACCAAGCGGCCGATACGGCCAAAGCCGTTAATA
CCTACTTTCGTCATAACTAAGTGCTTATATTTTAATGTTAACCATTATTGTTTTGTCCGG
AATACTTTGCTTTTCCCCCCGAAAAGGATCCGCAGAGATTCTTCCCGATAGACAGCGTTC
CAATGACCTTGCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 782>:

GNMNS53TF gnm_782

TAAATGGATGACCCGGCTTTTTTGTTCCGGTGGTTGATTTCTCATCGGTTTCAAACAAGA
AGAAAGAGTCCGACTCTCTATTTACTTGTATGGATTCAGAGAAAAATCAGAGAAGGCCTT
CGTCAGCGAAACTGAAATATGCCCCATCGTCACCGATGATCAGATGGTCGTTCAGTCGAA
ATCCGAGCAATGTGGCAGCCTTTTGCACCCTTTGAGTAAGCTGAATATCCTGTTCACTTG
GGCGTACCGTTCCTGAAGGATGATTGTGTGCCAGAATGATTGCCGAGGCAAGATGAGAGA
CGGCTTTGTGCATGATCAGACGGACATCGGnCGAAGTCTCCGATACACCTCCTCGGCTAA
AGGTTCTCATGCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 783>:

GNMNS55TF gnm_783

GTACTTCGAAGAAGCATCCGGCGGCACGATCTTTCTGGACGAAGTGGGCGAACTGCCTTT
GCCCACGCAGGCGAGGCTGCTGAGGGTGCTGGAGACGGGCGAGTTCATCCCCGTAGGAGC
CAGCCAGTCGCAGAAGACGGATGTCCGTATCGTAGCGGCGACGAATGTGAACCTCAAGGA
GGCGGTAGCGAACGGGAAGTTCCGGGAAGACCTCTTCTTCCGGCTCAATACGGTACCGAT
CGAGGTGCCTGCGCTGCGTATGCGACCGGACGACGTGCCCTTGCTTTTTCGCCGATTCGC
CGCCGACAGCGCCGAGAAGTATCGGATGCCTCTGCTGCGCCTATCGGACGAAGCCGTACC
ATATTAATGCGTTACCGCTGGCCCGGCAATGTGCGACAGCTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 784>:

GNMNS57TF gnm_784

GCCATTGTGGACGAACTCTACCGGCTTGCCGGTATCTATAATACCTGTATTATCTGTGTA
CTCCATTTTGTCCCGAACGGGATTAAACTGCGTGGGCATATCGGTTCGGAACTTCAGCGC
AAGTCGGCGGCCATCCTCTCCATAGAGAAAGATGAGAATCCGGCTTTGTCGGTCGTAAAA
GCACTTAAAGTAAGGGATGGAAGCCCGTTGGATGTACCTTTGATGCTGTTCGGATGGGAC
AGGGAAAAGGAAATGCACGTTTACCGGGGAGAGAAATCTCCGGAAGACAnAGAAAAACGG
AAACTTACGGAATTGGGACAAATCGCAnAAGAAGTCTTTCACGCnCAAGAGCATTTATCT
TACAACGAACTGGTCGAAAGAATCATGCAnACGGTCGACGTCAAAGACCGTACGGCCAAG
AGTTATATCAGTTATATGCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 785>:

GNMNS59TF gnm_785

CGTGCATATGTGTCGGAGAACGGCTTGCGTCATACCCCCGAACGATACAGCATTCTTGAA
GTCGCATATAATCTGAAGAAGATATTCACGCCGGACGACTTGTTCGATCTCACTCGCGAG
AATGGCTTGCCTGTAAGTCTTTCTACGGTCTATAATACCCTTACCTTGCTCGAACGCTGC
GGGATCGTTCTGCGTTTGCCTTCTCCCGAAACCAAATATCAGTACTTGATGGCTTCATTT
GCAGAGCAGTGTCCGCTGCTTTTCTGTACCGAATGTGCACAATTTTCTACCTACTACCGA

CGAAATGTGAAGTCGATACTGGCCGACAAGGATCTCAGACCACCACGCTTCTCTTATAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 786>:

GNMNS63TF gnm_786

GCACACCTCCTGCGCGATAAGCCTTGATTATCGCCTGACGGATTTTTTCCGGATCGAACG
ACTGCACATGACCATCACGCTTTACGATGCGAAGGATTACCTCTTCCATTGTAATACGTT
ATTGTAAAAAAATACTTCCTGAGATCTATTCTCTTAGTGCCGGGGAGACTCCTTTCCTCG
AGGTCTTCTCTCCATACTTTATAGGCAACTCGTAGAGGCAGGTATTCTGGCTTACTTCAT
CTCTTTTCTGTTTGTCGCGCCTTCCCATTCAGCTCCACCTCTAATAGTGGAGAATGAACA
GTGGCATCATTTGGAAAGCGACAAGAGTCCGCATGTCAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 787>:

GNMNS65TF gnm_787

GTAGGCAGGGGGATCCCCCTCAAATCCCAAAAGTCTTGTATTGGAGCGACTCAGCTCTCA
TACTAAAAACTCCCCCCTCTAAGCAAACATTTAGGACACTATTGATTTGATAGCGGTTTT
TCTATACAAACGATGATCCCGGCCCCCTGCTTGAAACTGAATTTTGACACACCCTCTTCT
GGTAGTTGGGGTTAATTTAGGCCTTGCGTTTTTTTCTGCGGAAAGGTTGCCGTCTTTAAC
CATAAAGAGATGAGACTTTATTGAAAGAGCATATCGGACGAGATCGGCTTGAACTTTTCT
TCTCCCTTGAGCCGTATCATTACCCTGCTGTAGTTCCAATAAGTAnGCCAGCCACCTTGT
ATGGCTCCGACCCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 788>:

GNMNS71TF gnm_788

GTATGGTTTGAGTGACTACGAGGTTGAGGAGTGCATCAACGACTCCTTGCTTTTCAGTGA
ATTCCTTGGCTTGGACCTCGGCTTCCCTTCCCCCGACCATAGCACGATCAGTCGTTTCCG
TAGTGAACTCACTCGCTTGGGGATTATGGATAAACTCCTTCGGGAGCTGAACAAGCAGTT
CAAGAAGCACGGCATCAGCCGTATCGATCAAGGCGCCATCGTTGATGCGAGCATTGTGGA
TAGTCCTTACGCCCCTGATGGCAACGTGGTCATAGAAGTGGCTGAAGATCGAGAGGATAC
TCGTTCGGAGGAAGCTCGTACACAGCCAGGAGGCTTATCATTGTGAACTCAAGAGTGGCA
AACCGGGAGTAGACTCGGAGGCTCGTTGGGTACGCAAAGGCAGGCACTATCGGTATGGAT
ACAAGAAGCACGTCTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 789>:

GNMNS73TF gnm_789

GTTTTGGAATATAATATCGAAGTTCCGGACAGAATAGTCCGTTTTACCTTCCTGTATCGG
CATAGCATCCATCTCTCTCACCCGATCGATACGTACATCGAGGTACTGCAAGAGTAGCAA
ATTGCTGAATACTTCACTTATGGGATTATATATGCTCGATCCGATAAGCAGAAAGACTAA
ATAAGTGAATAGATCAATTGTTCCTTCTGACAAGAGATAAGCTCCCATTATGATTACAGA
GGCAAGTCCCAGTTTGAGGATTATATGTGAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 790>:

GNMNS77TF gnm_790

GCTCACAGCTCTATGAGATGGAGCTACAGCGCCGACGAGCTGCAGAGGCCAAAGTGGAGG
CCGGCAAGAAAAAGATAGAGTGGGGATCGCAGATTCGGAGCTATGTATTCGATGATCGCC
GTGTGAAAGACCATCGTACCAACTATCAGACGAGCAATGTCAATGCCGTTATGGATGGCG
ACATAGATGAATTTATCAAGGCTTATCTGATGGAATTTGCCGGTGAAGAGGCGTAATCGA
CTTTCGCTTCTGAAGGAAGGGATTCGTTGATCAAAGGAAATGGGGCAGGCTTGTATTGGC
AGTCGGCCCATTTCTTTTTTGTGGGAAGTCCGGAAATGTCGCCGGTTTATCGGCTCATAT
ACAATTATACGCAGGGTTATTGTATCTCATGTCCTTTCGGGTAGTAGGCACTATATTCCT
GCTACAGGACGGnGAAATAGCCGACTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 791>:

GNMNS79TF gnm_791

CTCTTCGGATTAGATACGGTTTGTATGCTTCTCGATAAGGAATTGCTTGACTTTGCCTAC
TCTCTTCCCTTCGAATACCGCTACGGAAAGCGTATCTATGATGATATTTGTCGTGAACTG
TATGGCGAGAAAGGCATTTCTTTTTCGGACGATTTGAACCTGCATGGCATTATCTCTTCT
CCTGTTTACCGACTCAAACGATCTCTAAAGCCTTTGCTTCGACCATTTATACCCCGTCCT
TCGATTTGGAAAGGCGATATTATCGGTTTTGAACGGATCATGCAACCTGTATTACGACAG
GTAGAGCAAGACGGACGTTTCCACCCGACATCTATAAATGGGTTATCCTTCTGCTGGTAT
CTGCTTCAAAACGAnAAATTGATTGACCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 792>:

GNMNS83TF gnm_792

GCCAAGTTCTTCAGCAGGTCAATGCCTTCGGCAAACCATGACGGGGCATTGAACAAACTG
AAAGGCTTGATCGTGTAAGAAATGTCATCGAGTACGGGAACGACTACGCCTGCCACCTTC
TTTGCCGAGAGCTTGACACCCTCCACACTGATCAGGTCGGGTTTGAATTCGTTCCACAGG
CTTACCATGCTTCGGTAGCCTACGATCTCTTCTTCCAGTTGGCGTTCCAATCGCTCCACC
TCGTCCTTCGTTCGCTTCACCTCCAGACGCAATGCGCTCTCCTTGCTTTTGATCGTCGGT
AAGGTACGCTCTCGCATCTTAAGCTGCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 793>:

GNMNS87TF gnm_793

GCTTATGGCAATGCTGCCCAAGGAATCATCGACTTGGCCGAACAGGCAAGTGCTAAGATC
GTCGGTATGGGCTTTATCATAGAGAAAGCCTTTCAGAACGGGAGAGAGGCTCTACAGGAA
AGAGGTATAAGAGTGGAGTCGCTCGCGATCATCCGAAGCCTTGACAACTGCTGCATAACT
ATTGCAGACGAAAACGAAGACTAACCATACACCATTCCAATACACATCCCGTCCGCTGGC
TCAGTGGGCGGGATGTTGCTTTTTCCTTCCCTTTTCTCCGAATATAAAGACGTGCCACTT
TTCGTTTCTCATTCGGAAGGCATATTGAGCCCTTTGAAAAAAGAGAAGGTCTCTATAATG
CAAGAATCCGAGTACGTGCTACAGATATGGCCGAGCGGCAGTTTAGAGACTGTCTCCTCT
GTCCTCAAGATAATAAGTGCCACGCAGGATTTCGCGTTTAACGGGAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 794>:

GNMNS89TF gnm_794

CCACTTTTTCCGTAAGGACAGTATCGTACGTTTCCACCGCTCGGCTTTCCGCCTGTCCCT
GCCGGTGATCGGCGGCATAACGGCTATAGGGGTAGCACCCTTTCGCCATGCACCTTACGG
GCAGTCTGGTCAATATCATCATGAATCGTTCTTTCGTATCCTACGGCGAGACAGCAGATG
CTACCGACTTGGCCATCGGAGCATTCGGGATTATCAATGGCTATGCCATGCTCTTTTTCA
TGATTATCATCGGTGTGGCTCAGGGGATGCAGCCGATCGTAGGTTTCAACTACGGnGCTA
AAAATCCGGGACGGGTGAAGTCGGCCTATCGCTACAGTTGTGGCGTCAATCTACTGGTCA
GCTTTCTCGGTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 795>:

GNMNS91TF gnm_795

GCAGATGGCGAACGGATTTGCCAGCTTGTTATCGCCAGACATGAACAGGCCGAATGGGTG
CTTACAGACGAATTGGCCGATACGGAACGAGGTGCAGGCGGATTTGGTCATACGGGCAAA
GAATAATTTTCAATCTCCCTTCAACTACCACAGATGCGGATCCATTCTATCATTCTCCTG
CTGTTTCTTTTAGTTATTTCTCCTGTAGCCGGAAGTATATCCATTACAGACAGTACAGCA
TCTAAGTTCGACCGATATTTCTATGAAGGTGTCCGGCAGCGAGAACAGGAGAATTATGCT
GCAGCTTTCGACATCTTTCGCTATTGCCATCGGTTGAATCCCAACGATGCGGCTCTGTTA
TCGGAGTTGGGAAAACTGTATATTGCCAATGGGCGTCAGGAGGAAGGAACCCGGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 796>:

GNMNY45TR gnm_796

CGATTATGAGCGCTGTGCGTACGCCTACGCGCCAGCTCTCAAGCCGCCGGACAATTGAAT
GCGACGATAGTTTGGATTCCATCAATGCCACTACCAGCGCGATTGTGAAATACGTTTCCC
AGCGTGCGGGCATCGGCATCAATGCCGGACGTATCCGCGGTTTGGACAGCGAAATCCGGG
GCGGCGAAGCGCGGCATACCGGCTGCATTCCCTTCTTTAAAATGTTTCAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 797>:

GNMNY56TF gnm_797

GTCCGCTGATCGAGAACGCGCATGAAAACGGTAGTCTGGATTGTCGTCCTGTTTGCCGCC
GCCGTCGGACTGGCGCTGGCTTCGGGCATTTACACCGGCGACGTGTATATCCTACTCGGA
CAGACCATGCTCAGAATCAACCTGCACGCCTTTGTGTTAGGTTCGCTGATTGCCGTCGTG
GTGTGGTATTTCTTGTTTAGATTCATTATCCGCGTATTCAATATCCCCGAAAAGATGCAG
CGTTTCGGTTCGGCGCGTAAAGGACGCAAGGCCGCCCTTGCCTTGAACAATGCGGGTTTG
GCGTATTTTGAATGGCGTTTTGAAAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 798>:

GNMNZ15TF gnm_798

CGCGACTGTTGCGATAAGCGCGGAGGCGATGATTTTTTTCATGTGTGTCCTGTTTGGGTG
GAAAATCGGTTTTATTGTATCGCCGTCGGGAATTTTGGCAAGCATTCTGCCGGCAAATCG
TGATGTTTACAGGGGCAGGGTGTGCAATTTGCGGACAAATGCGAGGCTGTTGGCGACTGG
GTTGCCTTTGTTTTCGACTTCGTGTTCGGTTTCTACGGTCAGCAGGCGGCGGTTTTTGTG
TTTGTTCAGGCTCAATTCGGCTTGTGCGGGTGTGAAAAACAGGCGGTGTTTTTCGGCAAA

GCGGCGGGCGCGGCTGTTGGCGGTTTTCAAAATCTGAAGCAGCGATCGTCCAGATGGAAG
CGTCGCACGCCCAATACGAGAATCCGTGCGGCAAAAAAATCGGCGGCATCGGTAAACTCG
GCGGGGCTGCTGCGGCTGAAGTCGTGCCGTTCGGCGGCTATCAAGGCGGCAACGGTGCGG
ATTTGCGGAATCATCGATTCGCTGATAAGTGTGTCGTCCCGCCCTGCATCGAGAAGCATG
GGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 799>:

GNMOB22TRB gnm_799

ACTTCTTAAGGTCAAACATCTACTACTGATTGACAGCGAATTAGCATTGCGAGGGAAAGG
TGAAAAGAATTTTGGGAGGGGAGCGAAATAGAATTCGAAATTCGACGTACATAAATAGCG
GGAGTGTTTCAGCGGCGCGATCGTGCATTCCCCGCACAACGGGCTAATGATCCATACCTA
GCAGTGAGTCCAATTGAACAGGGGAGGTGCAGGGAAATTGAGCTCCAACAGGGTGACGAG
CCGTCGGGCGCAGATTTGAAATTGAGCGACTCACTTACGGTTAGGCCGAAGGCGTTGCAA
TAGGCATCGGAGGATTGAATTTATGTACGCCGTAAAACGTGGGGACGAGTCGCGGACAGG
GGCGAAAGGTCAAATAAATCTGGAGACAGTCGGCCTCTTTTGAAAATCACCCAGGCAGCG
TTCTGAGTAAGATATCGACGGGGGCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 800>:

GNMOB25TE220 gnm_800

ATTACTGCCCAAGTGGAAGTGGGCAAAGTGTACGAAGGCACTGTGGTGCAAAATCCTCGA
TAACAATGTCGGCGCGATTGTCAGCGTGATGCCGGGCAAAGACGGTTTGGTACACATCAG
CCAAATCGCCCACGAGCGCGTACGCAATGTCGGCGACTACCTGCAAGTCGGTCAGGTGGT
GAACGTGAAAGCATTGGAAGTGGACGACAGAGGCCGTGTCCGTCTGTCCATCAAAGCCCT
GCTGGACGCGCCTGCCCGTGAGGAAAATGCCGCCGAATAACGCTTAAGGTGAAAGTGCCG
TCTGAACAGGTTTCAGACGGTATTTTTTACGGGTATCGGGAATGAATGGGGCTTACAGCC
ACAGGACGGCAAGTTTCCATAATGCCCGGGGATCCTCTAGAGTCGACCTGCAAGCATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 801>:

GNMOD17TRB gnm_801

AGGTGTACACGGTTCCCGCCATTAGTACTATGTGGTCGTGGTTCCGGCCCCCGAATGACA
TCCTGTTGACGATAAACCTGCTGGTCCGGCACCGTGTGGTAATTCGTGTGCACCCTAGAT
TGATAAAGTTGACCCGTGGATCGGCAAATATTATGTTGACGGCGTCGTGTTGTAAATTGT
TGTTGACACCTGGGCAGTGGTTTGTGCCACTGTTGGTAACTCCGTTCCGGCTGGAGTCCT
ACGTAGTAGAGGTAGCCGGCCGGATGTACTGTTCGTGACGAAGACACGTGGAACATCGGC
TCGTACGGCTAGTGGGCTGGTAATAGGCATGTTGTGTGTACTCCCCCTGACACCGACACC
CCTTAAATTGACACCGCTAATGCCTGGATGGTGGTTTATGGTCGTTAGTACACACCTGGT
AATAAACATGTTCCCCCTGTTACTTCGTCTTTAACGGATCCTCATACCGTTGCTCGTACT
GAGCCCGATTCTGGCCCCAGTACTTAGACGTAGCCCTAACCTCCTGTTGAATATGGTGCC
TGTTCTGCTCGAAATGATGGGGCTGGAAACGTTGTTGACGACCTTGTTTAAATTGAAAAC
CCTAATCCCTATGTTTAAATGGCGTAACGTTCGATTTAAGCCTAAATTGACAATATTTGG
TTTGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 802>:

GNMOD53TFB gnm_802

GGTAACGCCTAAAGGCGAAACCCAACTGGACGCCGTGAAGAAAAACTGCTGCGCGCCATC
TTCGGTGAAAAAGCATCTGACGTAAAAGATACTTCATTGCGTATGCCTACCGGCATGAGC
GGTACCGTTATCGACGTTCAAGTCTTCACTCGTGAAGGTATTCAACGCGACAAACGTGCT
CAATCCGCCCGGATGGGATTTGATGCGTTGCGGGGAATTGATGGGGCCGGGGACGAGGAC
GTTGGCGCGCAGGTTGCCGAAGCGTTCCCATTCGTCGGCGGCGACTTTGCACAGGTAGTT
CAACGCGGCTTTGGACGCGCCGAAGCCGCCCCAGTAGGCTTTGGGTGTTTCGCCGTGGCT
TTCGCCGACGAAGATGACGGACGCGTCGGGCGACTGCTTCAGCAGCGGGAACAGGGCGCG
GGTCAGCCCCATAGGTGCGACGGTGTTGATGCGGTATTGGGTGACCCATTCGGCGACGGT
TTGGAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 803>:

GNMOE03TRB gnm_803

GTTCCCCTTGTAGGTCGCAACCGAACCCTATAAATTGTTGAATATCGTTGATGGATGTGT
GATTAGTACTAGGAATGTTGTAACTGTTAAGGTCCTTGTTGTTTCGCTTAATATGCCGGT
AGGAGAAATTAGTAGTAAAGGTACCTTTAAATGCGTGGATAAAGCGGCTGAAATTATGTC
TAGAAATAATAGCGTGTTATTTGGTAGGAATAGATCGTTTACTTAACTTATGTCAATGAC
CTCTTTCCAAAACCTACGAAACCAAAACTGAAAGATCGCAATATGGCACCCCTCCCCTAT
GAAATCCCATCCTATGCTTGTTATAGTGCCTAGATGGTACCCCTTCGCCCTACGTTGTTC
GAAATTGTTTAAACTTGTGCCTCTTCACACAACGCTGGATCCCGTGTTGTACCCTAGGAC
CTCCCAACGGTACCCGTTCTATCACCCATTTCGTTGGATGATACTATTGTTGCCCCGGAT
GACGCCGTTTCGACGATTAAAGTTGTTGTAAAGAAAATTGTTGGTGCGGCTGGTGATGAC
CCGGTATTTAACGTTAATTGGGCCATGGGTGCACTGGTAGAATGTGAGCCGTTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 804>:

GNMOG34TF gnm_804

CGCGCCGAAGAAATTCGCCGGGGCCGCGGATGTTGAGGTCTTGGCGGGCGATTTCAAAGC
CGTCGGTGTGTTCGTAGATGACTTTCAGCCGCGCTTTGGCGAGTTCGCCCAAGGGTCGCC
GCCATTTCGACGGGGTGGTGTCCGTAGTCGTCCACCAAGAGCGCGGTCCCGCCGTTTGGC
AACTTGATGTCGCCGTATTTTTGGAAGCGGCGGCCGACGCCTTCAAAGCCGAGCAAGCCT
TTTTGGATCGCTTCAACCGATGCGCCGACTTCCAGCGCCACGCCGATGGCTGCCAATGCG
TTCAGCACGTTGTGTCTGCCGGGCATATTCAGCACGACTTCAAACGACCCCTGCTCATGT
CCTTTCATTTGAACATGGACGGTGAATTTCATTTGCGCGCCGACGTTTTCGATGTCGGTG
GCGTAGATGTCGGCGGTATCGTCCAAACCGTAAGTAGCATAAGGTTTGCTCACTTTGGGC
AAAATCGCGCGGACGTGTTCGCTGTCAATACACAAAAAGGCTTTGCCGTAGAAGGGCATA
CGGTGGATGAAATCGATAAACGCCTGATGCAGTTTTTCGACGCTGTGCCCGTAGGTATCC
ATATGGTCTTCGTCGATATTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 805>:

GNMOG50TR gnm_805

TTTGACGGTTTCATTATGGCGCAGCAGCTTCCCGAGCCGCTGGCTTCGCAGTTTGCCGCG
ATGAATCGGGGCGACGTTACCCGCGGGGCTGATTGAAAACGGCGGCGATGCTGTCTAAAC
AAAATCTCCGTCTGAACAAAATCCCCATCGGATAAAAAATGCCGTCTGAAACGTTTCGGG
TTTCAGACGGCATTTTGTCGGGGTACGCGGCGGTGCGGCTTATTTCACTTTACCTTTCAA
CGCGCCATATCCTGCCGCGTCCATTTGTTCCAGCGGGATGAATTTCAAGCTCACGCCGTT

GATGCAGTACAGCAGTCCGCCTTTGTCACGCGGGCCGTCTGGGAAGACATGTCCCAAATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 806>:

GNMOH10TR gnm_806

CCCGTACAGCCCGTCAAAATCCGTCGCGTTGTTGTCGGGCAGTAACACGCAGAGAGACGT
TCAGACGGCGTCGCCCGTTTCCCAAAAAACGCCGTTTAAAGTAAAAAAATATTTTAAAAC
AGACAGTTGATATTGACAAATTCAAACCGAAGATTTTAAAATGCTGCCAACCCAATCCAA
ACCAACCGACAAACTTTGGGCGTGGATGCCGGCATCCCCGTATTCGCCCTGCTGCCCGGC
AGACGCGTCAGCGAGATCGACTATATGGCGCCGGTGTTTTTTCAGACGGCATTATTGTTG
TTGGAACGCTATCCCGCCGCACTCTTCCTGCTGCCTGCCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 807>:

GNMOH12TF gnm_807

CACTTTTATATAAATCATTGATCCCATTACCCCAACCTCCAATTTTTTGCCAACCATCTA
TTGTATATTCAACACCTAACTTTGTTACATCCATTATCACAGATTGTAAAAAAGTAAAAT
GCTTCTCTTTAAAAGATCCATCAAATCCTTTATCTAAAGCAGATATTAACTGCTTTCCAT
TATCCCTTTCGCTACCGTTCGGATTATTTACTGCTTGCTCCGCCTAAAAAACGTCGTATT
TAATATTGGAGTGATTTGACACATGGCACGTTATATTGGTCCTAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 808>:

GNMOI35TF gnm_808

GAGTTTGGCTGTAACTGGTTTTACCATTATGGCGGCACGCGTAAACATTTGCCGAAAATA
CGGTCTGAACCGCTGTAACAAGCAACATACTTCCAATTATTTTAGATACGCGCATATCAA
CCTCCTTTATCGTTCATCTTCAAAAAAGGGAAAGTTTTTCAATAGCACTTCAATCAATTC
CTTCATTCCCCGGCCAAAAATTGGACGGTAATTCCCACCCACCCCCTACTTTGATTTCAG
AAATATCTTTAAACTTCCGCTTAAAGGCGGACACTTTGTCCATATCGTCATCAATTTCCT
GTTTGCCGAACGGTATTTTCCGCTTTTCCAAAACCTCGTCATAATAACAAGATAnATTAA
GCAATAGCCCCCAAGCACTATTTGCAATTACGACTAATCTATGTTTTTCCCTAGTTAAGT
AATCTGCnACGCTATCATAGATTGCCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 809>:

GNMOK36TR gnm_809

CCTTGAAATGAAGTATCTCTCTTATAAAACTATCTTGGTAGCTCTATAGTGTTCGTGACC
CAGTGGAGCTCCAAGCACATCTGTGGAAGGTAATTCTTCACAGACACTGTGGGATTTCAT
TGCTGCTTTTGGGTTGTGACTCAGCTCCTTCGGTAAATATAGCCCATTACATACTTTCTC
CAAGAGCTGAATTATAGTAATTCAATTTTTAAACTCACAAAACATTTTGTCACAGAAATT
AACCCAAAGGCTTTAAATTATATCATTTCTTGATAGATCACTTATATTTCTATTTTCTTG
ATTTCTTACTGGATTTTAAAAATAGTCCCCTTTGGTCTTTCACATGATCTTATTTAAGCC
CCTTTCCCCTAGTGTGACTTTCTTTACAATAAAGTTATTGGGAAAAACTCATTAATTCAT
TGACAGAAGGTATTGAACTCCTGGGTGTTTGAACAGATATACAACACGCTGAAGCTGAAT
TGCGCCGTGTATCCTGCTGTGGACAAATCCTGCCGCGCGTCGGCGGACAAACCGTATTCC
TACGACAGCAGCGACCGTTTCCACTACCGCGAACAGCACAATGTTTTGAATGCCTCGTTT
GAGAAATCGCTGAAAAACAAATGGACGAAACACCATCTGACTTTGGGCTTCGGTTACGAT

GCTTCCAAAGCGATTTCCCGCCCCGAACAGCTTTCCCACAATGCGGCAAGGATTTCGGAA
TCCACGGGATTCGATGAAAACAATCAAGATAAGTATCTTTTGGGTAAGCCCGAAGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 810>:

GNMOL05TRC gnm_810

CCCCAATCGACCGACCCAAAACAAATCACCCCCTGATGTAAGCCGTAGTAACCTCGTTGT
ACGCCGTTGTGCTGCACTGGCAACGATCCTCTTGTTTAATACATGGGTAATTCTCCTGAC
TTGCCGGACCCTACTTAACACATCGACCCTGTCGATGGCCCGTCTCTTTCTGTCGCGTCC
GTGTATTTGTTAGCGGCCCCTCTTGTAAGACGTGATCCGGGGAAGGCGGGCAACCGTAAG
TATTCGACGCCCCTCGTTTAATGTATGCAACGTTCCGTTGATTACCCTAGTTATCTTTTT
CTTAACATTGGCACTGATTCTACTAAAAACTAAGGCGGGAATCCGGGCACACCGGTCGGT
AATAATTCGCAAGGTAAGGTCGACATGTGTTAACCTGTTGTTGGAGGTAATCCCACCTAG
TAGATGGGGTGGACCGTTCCCGCCGGTGGTAATCCGAAACCGAATTCGTCTTAAATTGCG
CGTTGCTGGTGATGAAGGTAATAGGATGACGCTCAAATGTGTGTTCCCTACGGTAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 811>:

GNMOL83TR gnm_811

CTTCGCCGCCGCGTCCGAACACGAAAGGGTCTCCGCCTTTCAAACGCACCACGCGCCTGC
CTTCGCGGGCCAGCCTGACCATAAGCGCATTGGTGTCCTCTTGCGGGGTGCGCTCGCCCC
GGGCGCGCTTGCCGACAAAAATCCGTTCCGCATCGCGGCGGACGAGGGACAGTATGCCGT
CTGAAACCAGCGCGTCGTAAAGCACCACGTCTGCCTGCTGGATTTCCTGCAGCCCTTTGA
GCGTCAGCAGCCCCGCATCGCCGGGACCCGCGCCGACCAGCGAGACGGAGCCGCCTTGAT
CATTTTGACGACTTTGTTCCAATTGGCCTGCCAATTCCCGTTCGGCAAGGGTGTTTTGCC
GGTTTTTGACGAnGGCGGCGAAACGTCCGTTAAACTGCTTTTCCCAAAAGCGGCGGCGTT
CGGTAACGGATTTCAGTTTGCCCTTGACGGCATCGCGCCACCTTCCTGAAATTTCCGCCA
TATCGCCCAAAGACGGCGGCAGCAGGGCTTTCAGCCTTTCACGCAGCAGTCGGGCGATGA
CGGGCGCCGCCGAACATTACCTGCCTCTACATCCGTCAGGCGGAAGCACTGGGCTTGGGA
CACGCCGTCTTGTGCGCCCGCGCCGCCATCGGAGAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 812>:

GNMOM42TF gnm_812

GTCCCCCTGGAGGGGGGCGGGCTCTTCGTTGCGGCGGAGGTTGTGGTCTTCTTCGGGCTG
CGCCTGTTTTTTGCGGAGCGCTGCGGCCGGCCCGCGCCGTTTTTCTTCGGCTTGCGCCTT
TTTTGCGTTTCTGGGTTTGCCTTCGGCGGGCTGCCTTTCCGGGTCCGGGCCTTCGCGTTG
CGGTTTTTGCGGTTCGTCCTGGCGGGCGGAGGGTTCGCTGTCCGGCGTTTTTTGGGTCTT
GCGCGCCTGCTTGGGTTCGGGGTGnGTGCGCTCGGTGTTGGTGGGGCCGGTTTTTTGGAA
GGTGTCGGCGTGCGCGCCTGCGGTGCGGCGCGGGCCGGTCGGGGCCGCGGCGAACGCGCG
GGTCGAACGGGTCGTGGTAAGGCTCCTTCGGGTGTTGCCGCGAAGTGCCGTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 813>:

GNMOM51TF gnm_813

ATCAAATAATTGATTTTATTAGAATCTATTTGCAAAGCCATTTGCCGTTACACAAGAATG
GCACATnTCnATAACTGATGAGGATTTATACCGATGAAGACAGACATTCAAACCGAATTA

ACCCATGCCCTACTACCACACGGATTATCTGTGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 814>:

GNMOM81TF gnm_814

CGTGTCCGCGCTTTCGCCCGACGATTTGCCGCTCAACCAAAAATGGTCGTGGGACAAAAT
CCTGCGTTCGCCCTTTATCAAACAGGCGGACGTATTGCAAGGCATCTACTTCTTCAGCGA
CCGTTTCAATATCGACGAAAAACGCCGCAACTTCGACTTCTACGAACCGATGACCGTGCA
TGAAAGCTCGCTGTCGCCCTGTATTCACTCTATTCTCGCCGCCGAACTGGGCATAGAAGA
AAAAGCGTGGAAATGTACAGCGCACGCCCGCTGGACTGGACACTACACAACGACACGAAG
AGGCTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 815>:

GNMOP70F gnm_815

AGGATCCCCGCCGCTTCGGTACGCGCCCTGGAAATGTTGGCATGGCTGCCGGGGAAACTC
GGTTTCCCTGTCCCCGATGCGCGGGCGGTCATCGAAGGCCGTCTGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 816>:

GNMOP96R gnm_816

ACGGACAAAGCGTGATGGTCGTCGGGCATCAGAAAGGGCGCGACACCAAAGAAAAAATCC
GCCGCAACTTCGGTATGCCCCGTCCTGAAGGCTACCGCAAAGCCCTGCGCCTGATGAAGA
CGGCAGAAAAATTCGGCTTGCCCGTAATGACCTTTATCGATACGCCGGGCGCGTATCCCG
GCATCGGCGCGGAAGAACGCGGGCAGTCGGAAGCCATCGGCAAAAACCTGTACGAACTGA
CGCGCCTGCGCGTTCCTGTTTTGTGTACCGTCATCGGCGAAGGCGGTTCAGGCGGTGCGT
TGGCGGTCGCCCTAGGCGATTACGTCAATATGCTGCAATACTCGACCTATTCTGTTATCT
CCCCCGAAGGCTGCGCGTCTATTTTGTGGAAAACCGCCGAAAAGGCGGCGGATGCGGCTC
AGGCTTTGGGCATTACTGCTGACCGCCTGCAAAAGCTGGACTTGGTCGATACCGTCATCA
AAGACCATTGGGCGGCGCGCATCGGGGATTCGGGCAAAGACCGCAAAAACTCGTGGACAT
CATCGCCGCTTTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 817>:

GNMOS68TRB gnm_817

TAGCAATTATTGTTTCGAAATAAGGTGATATTGCCATCCCGGCTGGCCCTGGCATCCCTC
ATGCGGGTGAATGCGTGGAATGTTAAGGTTGTAATTTTAAAATTGGTGAGTTCTCGATTA
CCGTTGTTGTTAAAATGTTCAAACCTTGTGTTGGTAAAGTCCCGAAAGATGTATCGCAAG
TTGCCCCCCACGAAAAAAGTTGACCTCCCAAAGAACTGGTCCCCCCACTGGCTTATACCA
CCTCGACCCTAAACTGGTAATATATCGTCCGCTATGCGTCCTAAAGGTACCCGTGTTGTT
GAGTAGGCTAAGTCGCCTCCGCGTGTTGAGCCCGTTGAAGGACTCAACTCGCCCTCTGTC
TAACTCGCTTAAAGGTCGTCTTTATACATACCCGTAGCAGCTGATGGTGAGGTGGGCACC
GCCCGAACTCAAATTGTGGGTTTGTAAACTGCCCCGTTACCCCCTGGTAAATGGAACACC
TCCTATGTAAGATCTGATAACCCCTCGCCCCGTTCGTGGCCCGGATACTGTGTACCGGGA
GAGTAGGGTGGCCAAAGTGAGTAATGTTAAAACGATTTATGTTTAAACGTGGACGGCGTG
GACCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 818>:

GNMOT05TF gnm_818

GCGGCAAATCCACCTACATGCGCCAAGTCGCGCTGATTGTTTTATTGGCACACACCGGCT
GTTTTGTGCCTGCCGTTCAGCATATCGGAAAACTTTTGGTATTGTGGCGTAAGAATATCG
AAGCCTGACAGCCTGAAGCAGTTGTTTTGCTATTGTTCTTTAACGGGCGGGACGCCGTCC
TTCGGCGCGGCATTTCGGCGGGCCGAAACCCTTTCCGGTGAAAACGGATTTTGATTGCCG
CCCGATGCTGTCTGCAAGTTGCGGCGGCTTCCGTATGGTTTGAATTGTTGACAGGATGAT
TGGAGGGCTTATGCAGTTTCCTTACCGCAATGTTCCGGCTTCGCGTATGCGCCGTATGCG
CAGGGACGATTTTTCACGCCGCCTGATGCGCGAACACACGCTGACCGCCGATGATTTGAT
TTATCCGGTGTTCGTATTGGAGGGGTCGGCGCGCGAGGAGGATGTGCCTTCTATGCCGGG
TGTGAAGCGTCAAAGTTTGGACAGGCTGCTGTTTACGGCGGAAGAGGCGGTAAAGCTCGG
TATTCCGATGTTGGCACTGTTCCCCGTGGTTACGGCAAACAAAACCGAGCGTGCGCAGGA
GGCGTACAATCCCGAAGGACTCGTGCCGTCAACTGTCCGCGCCTTGCGCGAGAGGTTTCC
CGAACTGGGCATTATGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 819>:

GNMOT41TR gnm_819

GGGTATGCATGTTTGATTCCGCTTCTTTCAGCCACGTGCGGAAGCCCCAGCGTTTGAAAT
CGACAACCAGCTGCGCCCATTTCGGCGTAGTACGGCGCAGGCTTTCGATGCCGTCTGAAA
GCTCGGCGTGCAAGTCCACATCGGTTTTAATCGTGACCAAATCATACGACAGCGGCAGTT
GGGGCAGCGCGGCTTGCAGGTTTTCGCCCACTTTGCCCTTGATTTCCGAAGCGTGTTCCA
TCACACCAGCCAGCGAACCGTAGGCTTCCAGCCATTTCACCGCCGTTTTCGGGCCCGGGC
AATTTCGAGCTGAACGTCTATATGCCCGTTATCGCCTACAACCTCTTGCAATCCATCCAC
CTGTTGGGCGACGCGTGCAACAGCTTCAACGAACACTGCGCCATCGGCATCGAACTCGTG
CCGGnAAAAATCGACTATTTCCTGCACCATTCCCTGATGCTGGTTACCGCATTATACCGT
AAAATCGGTTACGAAAACCCGCCAAAGTCGCCAAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 820>:

GNMOU02TR gnm_820

AGGTTGGCTTGTGTTCATAAAAAACTTATTACATGTAACGGTTTGAACGGACATTCCGTC
GGGTCGGAATGTCAAAAAGGCGCGATTGTACCAAAGAAGTTGGACATAATTTTGTTTGCA
GGCTGAAGATTTGCTTAAAAATTCATTAAGATGGGCGGAACAAATAGTTTGGGTACAGCG
TGTTGAAATACCGCTTATCCCTTAAAATAGCGTCCGAAATTCTGTTCGGACGGCATCAAG
ACACACGGTAATCCGTCTGAACCCCCCATTTGACATCAACAAACAAGAGCATTGAATGAA
ATTCATCGACGAAGCAAAAATCGAAGTCGCCGCAGGCAAAAGCGGTAATGGCGCAACCAG
TTTCCGCCGCGAAAAATTCGTACCGCGCGGAGGTCCGGACCGCGGCGACAGCGGCAAAGG
CTGCAGCGTCTGGGCAGAAGCCGAAGATCACACCAATACCCTCGTCGAATACCGCTTCGT
TAAACGCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 821>:

GNMOU06TR gnm_821

GGTAACTGACGGATCGGGCATTCCTTAAATTACCCGTGTATCGCTGTAAATCTTAGAGAT

GGCGGAATATAGCGGACTGCATCACCGCCCGCCCCGATTCAACCATGGCGCGCCATGCCG
ACATCCACATCACGGCGTCGGTTTCCAAAGAAGCCTGCCCGCTGGGGCTTGCCCCGACCA
CCAGCACCACCGCCGTCATGGCTTTGGGCGATGCGTTGGCGGTCGTCCTGCTGCGCGCAC
GCGCGTTCACGCCCGACGATTTCGCCTTGAGCCATCCTGCCGGCAGCCTCGGCAAACGCC
TACTTTTGCGCGTTGCCGACATTATGCACAAAGGCGGCGGCCTGCCTGCCGTCCGACTCG
GCACGCCCTTGAAAGAAGCCATCGTCAGCATGAGTGAAAAAGGGCTGGGCATGTTGGCGG
TAACGGACGGGCAAGGCCGTCTGAAAGGCGTATTCACCGACGGCGATTTGCGCCGCCTGT
TTCAAGAATGCGACAATTTTACCGGTCTTTCGATAGACGAAGTCATGCATACGCATCCTA
AAACCATCTCCGCCGAACGTCTCGCCACCGAAGCCCTGAAAGTCATGCATGCAAACCATG
TGAACGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 822>:

GNMOU37TR gnm_822

TTTTTCACACGCAGTCCGAAACGTCAGACGGAGTTTGCGGTCGGACAGGTAAAATGGTGG
CGTGCTTATTGAAATTTCGACAAAGGTCGTCTGAAAACCGAAAATATGGATTTCAGACCA
CCTTTGTTGTATTTGGTAAGTATATGTTCCCGTTGTATAATTACGGAATTGCAATTCAAT
ACAAAATACACAGGACACGCCATGACAGAATCCATCACATGAGACAGTACACAATACGAT
GTCATGACTGTAGGCGCAGGCCCGTCAGGTTTGTCTGCCGCCATCACAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 823>:

gnm_823

ACACCGTCTTGTTCGGCGGTATGAATATGGACAAACAGACCGCCGACCTGCGTGCCGGCT
GCGAAATCGTCGTCGCCACCGTCGGACGGCTGCTCGACCACGTGAAACAGAAAAACATCC
ATTTGAACAAAGTCGAAATCGTCGTTTTGGACGAAGCCGACCGTATGCTGGATATGGGTT
TTATCGACGACATCCGCAAAATCATGCAGATGCTGCCCCGCCAACGCCAAACCCTGCTCT
TTTCCGCCACCTTCTCCGCCCCGATACGCAAACTGGCGCAAGACTTCATGAACGCGCCCG
AAACCGTCGAAGTCGCCGCGCAAAACCGGCATCGCAACTCCAAAGAGAAAGAACCCAAAC
CGTCATTCCCGCGAAAAATAGAAAATCAAAAAAAAAAACCTAAAATCCGTCATTCCCGCGC
AGGCGGGAATCCAATCCGTCCGGTTTCCGTTTTTTTTTTGAATTTCAGGTAACTTCCAAA
CCGTCATTCCCGCGAAAGCGGGAATCTAGAAACTCAAAGCTGCAAGAATTTATCAAAAAT
GACTGAAGCTCAAAAAACCGGATTCCTACGAAAACAGGAATCCGGAGTCTCAGGGCTGGC
AAAACCGTTTTACCCGATAAGTTTCCGTACCGACAGACCTAGATTCCCGCCTTCGCGGGA
ATGACGAAATTTTAGATTGCAGGCATTTATCGGATAAAACAGAAATTAAGCGTGACGAAA
ATTTATCCGAAATCACAGCAACTTTTCCGCGTCATTCCCGCAAAAGCGGGAATCTAGAAA
CTCAAAGCTGCAAGAATTTATCAAAAATGACTGAAACTCAAAAAACCGGATTCCCGCGAA
AACAGGAATCCGGAGTCTCAGGTTTGGAAAAACCGTTTTTCCCGATAAGTTTCCGTACCG
ACAGACCTAGATTCCCGCCTTCGCGGGAATGACGAAATTTTAGGCTTCTGTTTTGATTTT
TTGTTTTTGCGGGAATGACGAAATTTTAGATTGCAGGCATTTATCGGATAAAACAGAAAT
TAAGCGTGACGAAAATTTATCCGAAATCACAGCAACTTTTCCGCGTCATTCCCGCAAAAG
CGGGAATCTAGAAACTCAAAGCTGCAAGAATTTATCAAAAATGACTGAAACTCAAATAAA
CCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 824>:

GNMOV26TF gnm_824

GTGCCAACAAAGGCGAACCCCCGGAATGAGGCCGATACCAATATTCTGAAAAACGTCGAA
TCTGCCTTGCAAGACGCGGACATTACCGTCGGCAACCTCGAAGGCACGCTGTTTGACGAA

GGCGGTACGCCGGAGAAAATGTGCAAACCCCCAAAATATGCTATGCATTCCGAACGCCCT
CCGCATACGGGCAATACCTTGCCGACGCGGGATTCGACTACCTCAGCTTCGCCAACAACC
ACAGCAACGACTTCGGCGCGCAAGGCATCACGGCAACGGCGGCGAGCGGCAGCTCTTTTA
CATACTCGATCGCGCTAAAGCCGCTGCCGATAACGATGCCAAAATTGCGGGAAATACCGC
CATCGCCCAGATAAATTTGTCCATCATCAGACCTTTACTGTTCAGACGAGACAGCATTTG
CCGCACGTTTTGGGGCTTATCTTTCGATTTGCGCTACGTCGCGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 825>:

GNMOX61TRB gnm_825

GTTCCGTCCTTGATTCGATTGGTCGATAGTCTAATACTACGATCCTTGTTGAGGTAGATG
AATGTAACGTGGTAGAAGACGTTGTTACTTGTTGTTCGCCCACGGACTATCCGAATGCGG
ATGAAGAAATTGTTGATGCATCGGCCTAGGAAGGCCCCGTAATTCCGGAAGAAGCTGTTC
ACGCCTTCGTTGTTGAATCGTCCGTTACCGAAGGACCCGATGAAGAAACTGCTGACACGT
CTTGTAATTGTGTTTGTGACGTTACTTCGATTACGGTGACCGTTGTTGAAGAAAAATCGG
GTGAAGCGCTTGATGACACGTGTAATTCTGAAGGTACAGACGTTGACACGTCTTGTAGTT
CCGTTGAAGTACGTACCATTATTTGTGATGATCCGGTAGAGTCCGTCGCGGATGAATCGA
CCGAAACTATTGGCGCAAATGAAGAAATTGTAAAAGTTGCTACTTCGATTGTATGTGAAT
ATCGGCCCATTGAAGATAAACAAAGGGGGCATAGACGAGCAATATAATTGCAGAATAACC
CGTTGTTGAGTCGAAATGTTTTGCTGAAGATTCGCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 826>:

GNMOY35TRC gnm_826

AAAATTTGGACCTCTCCTCAAGTGAACTCCGTTCCTATCTAAGTCCTCCTTGTACTCCCC
CTAGCCCATTGACAAGCGCGAACGTTCAAAGTTCTCCTCCCTCTCAGAAAGGAGGCGACT
TAGTTGTAGGCCTTTTCATGGTCATTCCGCCATGATCCTATTTTAGCTACGAAGTACATT
GCGGCAAGTGGATCTTCCGCGGCCACTTCATTCATCCTCGGCACTTTTTATCTTTACGGC
GCGATGGGTGGCGCGCATAAGATTTGGGAATGCACCTATTGTAGCACGTCGATTCGTGAC
CATCAGTGACCTTGATCCTACGTATCTGAGCCGTAGAGCGTAACTTGGATCATGACTGGC
CCCGCGAGACCGGTCTTGTTCTGTGGTCCGGTCATTTCTCGCATTGATTACCGCACGATG
CGCGAAGTTTCGGCTACAAGGGTTACGAGGATCCGATGCTACTTTTATTCCTTCTTGGTC
CGCTATTGGTAGCTCTACCAGAGCGTTTAATCGAACGACGGTAATCAACGATAAGGGCCG
TGTCTGCCGTGGGATCCAATTTAATACTCTATGATATGAGTCGATGATAGTTACGTAGTA
TTCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 827>:

GNMPB01TRB gnm_827

ACACTCTCCTAACACTCCTGGCTGGTACACGTTGCTTGAATTGGGCCCACACCCTAGATG
GTACCCCGGGACCACCTGGACCCCCGTGCATCTGAAGGTCGGACAATGATGTCGATTTCG
TTGGACCCGGAAGTGGACCCCGTGTTGGACCCCGCGTCGTTGTCGACGGCACAGATCCTG
GCCCCGGCGCCGCACGCAACTATTGTATTCCTGGTGATACTGTTGTTGTGTCGCATCCCG
GTACCATTGGCCAAGATCATGGCGTCGTTCGTAGACGAACAAGTAATGCCGCCCGTTCGC
TTGTGTATTGCGTTCCCGTTGTTGCTTAACGCTCGGTCGAAGTGGATCGGTGAATTCCTT
GTTTCTATGGACCTGTTGTTCCCGTTGTTGTGCGCAATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 828>:

gnm_828

GGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGGCACGAGCCCA
CAGTGAGTTTCCCCCACACTCGGCTCCTTGGAGCCCCGACAGTCCATAGCACCCCAGGAG
ATGTCTAACCTTAGGGACTTGGAGGCCTCCCAGGGGTCTAGGCCAGCTGAGTTGTGAAGT
TGCATGGCAGGGACAGGGCAGGGCCGAGGCCAGGGTTGCTGTGATTGTATCCGAAGTAGT
CCTCGTGAGAAAAGATAATGAGATGACGTGAGCAGCCTGCAGACTTGTGTCTGCCTTCAA
gAAgCCAsACAGGAAgGCcTGCCTGCCTTGGCTCTGACCTGGCGGCCAGCCAGCCAGCCA
CAGGTGGGCTTCTTCCTTTTGTGGTGACAACGCCAAGAAAACTGCAGAGGCCCCAGGGTC
AGGTGTAAGTGGGTAGGTGACCGTAAAACACCAGGTGCTCCCAGGAACCCGGGCAAAGGC
CATCCCCACCTACAGCCAGCATGCCCACTGGCGTGATGGGTGCAGAGGGATGAGGCAGCC
AGGTGTTCTGCTGTGGTTTGGGAGCCTATAAAGTGAGACTAGGCTGGGCATGGTGGCTCC
CATCTGCAAAACCAGCACTTTGGGAGGCCAAGGTGGGCGGATCGCCTGAGGTCAGGAGTT
TGAGACCAGCCTGGCCAACATGGTGAACCCCCATCTCTTAAAAATATAAAAATTAGCTGG
GCATGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCACGAGAGTCGCTT
GAACCCGGGAGGTGGAGGTTACAGTAAGCTGAGATCTTCCCACTGCACTCCAGCCTGAGC
GACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAACTCGAGGGGGGGCCCGGTAC
CCAATTCGCCCTATAGTGAGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 829>:

GNMPE45TF gnm_829

TTAATCAAACTTTAATTCATTATTAAATGCCTGCAAAAATATATAAAAGCGGGTGGGTTT
TCCCGACAAATAGTTTTAATTGGAGCAGCTATATTTTTTTTGGTGCATGCGTAAAATCTT
ATTTCATTATTTATTTTGAAAAATGTATTAAAACAATAATGGAATTGGATATTGAAATAT
CAGGTTTTTTTGAATTAGATTATTATGAAGATAATTATAAAGTAAATTGGAAAATAAATA
ATGGAAATTTGATACAAACGACTAATTAAATGGACAAATATAAGTTAGATTGGACACCCA
AACCTAAAAACTGTCTGAAACTCAATTTGGTTTTCAGTAAGCGTAGGTTGGCTTAAAAAC
CCAACCACCAAAATGCCGTCTGAAGCGGTATTCAGCTTTCAGACGGCATTTTGATGAATG
AAACAGGATATTGAGAACTAAGTTCTTTAAAAATCCTACACCTGCTCCTTCCACGGCAGC
ACCTTGGTCAAAACGGCAGACGGCTACAAAGCCATTGCCCGTATCCGAACCGGCGACCGC
GTCTTCGCCAAGGACGAGGCAAGCGGAAAAACGGGATACAAACCCGTTACCGCCCGATTA
CGGCAATCCGTATCAAGAAACCGTTTACATTGAAATTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 830>:

GNMPE65TR gnm_830

CCCGCCCATCATCGTACTGCCCGAAAGGGACGTACCCGGAACCAGTGCAAACACTTGGGC
AACGCCGATCATCAAGGCATCAATCGGACGCAATGCATCAACATCGGCAATTTTAGGCTC
TGCTCGGCTTTGGCGTTTCTCCACCCACAAAATAAAAAAACCGCCCAAAACCAGCATGAC
TGCAACACTCAAGGGGTTAAACAGATACTCTTTGATTTGTTTGCCGAACAACAGCCCCAT
CACGGCGGCAGGTATAAAAGCAATGGCAAGATTAAGGACGAAGCGGTTGGCTTTCCGGTC
TTTTCCCAAGCCGTGCAACACATTGCTGAAACGTTGCCGGTATTCAAACACTACCGCCAA
AACTGCACCGAGCTGGATGGCAATTTCAAAAACCTTGTGATTGCTGTGAAAACCAATCAG
ATTGCCGAGTTCAGGCTTCATGAAGCGGAGGTCAAACCGATCGACAGGGAGAAGGTGCCG
GGGCAGGTGCGGGAAAAAGGAAAAGTTTTGCAGATTGACGGCGAAACCCTGCTGAAAAAT
CCCGAATTGTTGTCCCGCGCGATGTATTCCGCAGTGGTCTCAAACAATATTGCCGGTATC
CGCGTTATTTTGCCGATTTACCTACAACAGGCGCAGCAGGATAAGATGTTGGCACTTTAT
GCACAAGGGATTTTGGCGCAAGCAGACGGTAnGGTGAAGGAnGCGATTTCCCATTACCGG
GAATTGATTGCCGCCCAACCCGACGCGCCCGCCGTCCGTATGCGTTTGGCGGCAGCATTG
TTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 831>:

GNMPE66TF gnm_831

GCTTCAGACGAGCCATTTATTATATGGAGATTATAGTGGATTCAGGAAGCGCGTTCTTTC
GCGCGCGAAGACGGCAGGCAGTTTGTCGATGCCGACAAAATTATCGCCGCCGCCTACGGT
TTGGCGTTTTCTTTGGAACACGCTTCGGAAACGCAGGAAGGCGGGCGCACGTTCTGTATC
GCCGATTTGAACATTACCGTGCCGTCTGAAACGCTTGCCGATGCCAAGGCAAACAGCCCC
CTGTTGTACGGGGAAACTGCTTTGTCGGATATTGTGCGGCAGAAGACGGGCGGCAATGTC
GAGTTTAAAGACGGCGTATTGACGGCAGCCGTCCGCTTCCTGCCCGTCAAGGACGGTCAG
ACGGCATTTGTCGACAACACGGTCGGTATGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 832>:

GNMPF05R gnm_832

ACTATCTTCTAAAGGTTCACTTTTCTCCAAAATAGAAAAGGCAGCTTGGATATTTTCAAA
TGGCAGGGAAGGCAAATCTTCAACGAGACTGCCACAAATAGCGACAACAGGAACTCCGAC
AAGGGTTCTTTTTGCTACACCAATAGGCGCTTTCCCTGCTAAACTTTGACGATCTAGTCT
TCCTTCACCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 833>:

GNMPF17F gnm_833

TTTTTTTTTTTTTTTTTTTAAAAAATATCATTTATTCTTTTATAAACAATAGCAATAAAT
TTATTATATGTTAACAGCAGAGTGATGACATCATCACGTATCACATAGCTTCTGGAAAAT
TCCACCATACACTTTTGAGAGAAGGACAGATAAATGGTCGATAACATCTTAGTATTATCA
TGGAAAAGTTTTGATCTTATAGACCCCTCAACACCCAAAAGTCGTAATCAGTTCTACTCA
AGTAAGATTTAAATATATATCTATATTTTCTGGTCTGAGATTCTTTTCAACTTTACTCAG
AAAACATATACCTGAAGGGGGAGGGGGAGAGTGCACAGATGAGTCTGTTTGTATGTGGAT
GGTCACAGAAATGACAGAAAATAGTTATTTAATCTGAATCTGGACCCTGCTGAAAACTGC
CGTGATTTCTCATAACACTCTCCTGCCCCTTCAGAAGTGAAACTGGCTGATAGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 834>:

GNMPG84TR gnm_834

CGATTATTCTGACAATCAGCATTTTCAGAAGTATGCCTAAAAGTGGAATCAGACCGGCAA
GTAATGGCATTTATTACCCCTTGAACGAACCGAAAACGACAAAAGCCGACATAATGATAA
AGGCGAGCAGTACGGCAAAGCGGATTTTTTCGGCGTGCACGCATAACGGCTCATAGCTTG
CCTGATATTGTCTACCGAAAACATGAAAGGTTTTCGGCTGCGGACATACGCCGTTAGACG
GTAAAAAGTTATGTGAAGACCATGTCGTATCGTCTATAACCTGCGGTATGCTTATATCGT
GAAACATGCCGTCTGAAGGTATGCCCATCTGCTGACAGGCTATGATTTCCGGAAAATAAT
CGCACAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 835>:

GNMPH28TRD gnm_835

CGACGTTGAGTGCCCCCTTAACTTAAACTCCCCCGTGATAGGGTGCCGAAAAACGTAACT
GGTGAATGCTTGTTGGAAATCGTTAATATTGTATTGTTTCCTCTGCTTAGCGTGTTTCGT
AAAGTACTTGGTATCGTGCTAGTTAAAGATCGTGTTGTGGCTCGTTGTACCCCTGCGCCT
GCGTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 836>:

GNMPH38TF gnm_836

GCGCCCGCCAAACGCGGCAAGCGGCATACCGGCGCCGATGACTTTGCCCATCGTGGTCAG
GTCGGGCGTGATGCCGTGCAAAGATTGCGCGCCGCCGAGCGCGACGCGGAAGCCGGTCAT
CACTTCGTCGTAAATCAACACCGCGCCGTATTTTTCGGTCAATCCGCGCAAGGCTTTGAC
AAAGGCTTCGGTCGGGCGGACGAAGTTCATATTGCCGAAGAAGGGTTCGACAATCATTCA
AGCCATTTCATTTCCACTGTATAAAGTCCGGTCATTACCTGTGCTTTGCACCTCTTGGAA
ACCGGGCAACGGCTCAGTGGCAGGGTTGGCAACCAAAGTAACCGTATCGCCGACTTTCGC
CTGTCCCAATTCTTTTACGCCGGTATTCAAAAAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 837>:

GNMPH48TR gnm_837

GTCCGATTTGCCGACnAAACCGGGCCTGAAAGTGGACCTAGAGGGAAGAACGCGTTAAGA
GGACAACTTCGAGCTGTTAAAGACACCTGCCTAGGGGGTAAATGAGTGGTGAAACCGGTA
TGGGGTGTTAAAAGACAAAACCTACTGGCCAGAGGGGTAAAGCCTACCCAACCTAAAGTG
GTAATCACATGCTTATAAAGACTCATAATACCAATGTTCATACCCCGGTGGGGGCTGATA
TTAAGACCTCTGGGTTTGCTGAAATGGGCATCAGTGACGTGGTTGGTATTAATCAGAATT
AACGTAATAGTGCATATGGGTGGAGTAAACGTAAGTAACGTTACCTACCGCGTAAGGTTA
CAGATCAGATGGCTTGCACTAAACCTCTATAAATTATTACTCAGCTTGTTATTACTGTTG
CTGTTGGGAACGGGGAAGCGGCTACCCCACATGGGGGTAGAAAAAGTGGCGAGGCTTGCA
GTGATCCTTGTAAATAGACGACAAGTTAATTTGGGGGCTGGCTTAAATCGAGACCGTCTA
TTGGCCGCGTTATAGAACCCATGTATAATAGTGCTGAAAAGATCAAGCGCAATAGTGGTA
CCAAGGGTAGACTCAGGGGTGCGGCAAATACAACTGACCGGGACGAACCAGGCATTCTAA
ATCCCGAAACTAGGGnTAGTTGTAGTAGAAAAGGCAGAATTGAAATTACTACTAAGTTTT
AGATTGnTAGTAGGATGCCTTCGATTCnTAATCTTAAGAGACAGnGTGGGAAGGGTGGCA
T

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 838>:

GNMPI02TR gnm_838

AAGAAAACAAACCTCGCCCCCCCTTCTACGCCCCAGGGAGCGACCATAAAACGAAACTGT
CGACGCGACCACACTGGACGTCGCCTAAGTGATTCGAAAACAGAATCCCCCCTAGGTCGT
TCCCGCAGCCAATGGCAGAAACCCAGATAAACTTTGACCGTGTATCCCCAATATACTCCC
TCCACCGTGGACAGAACATCAAGCAACGACAAAGACGTCACCGCCACCCCAAGGATGCCA
GACCGACCACGAACAATTTATAGCAAGAGAATTTACCATACCACGAATGTTGTATAATCT
GATTACATTGTTAAAGCCCCGGTCGAAACGTCGATCCCTAAATAGTTCGTTGACGTTGCT
TCTCTTGTTCACCCGTGTGAATATAAAAAGTCTGGTAGCTAAGACTGTTATGCAAACTGT
TGCAAATTGTTCCCGTTGTGTCGTGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 839>:

GNMPI04TR gnm_839

TTGCACCGGGTAAACACATTCTTGACACCACGCTCGAAAATGGACACCTTACAGAGTAAA
GTGGCCCGGAATATCGTTAACACGTTGATGATGGTAGTGGCCCTGCGCGTAAAGCCTTTG
AAGGATGTCACCCTGTCACGGGTGATAATTGTGATAATAGCGTTGACCTGTGTCATCGGG
GACCCGCGGACGATAAGTCGGCCGCTGGTAAGGTAACGCCTACCCCGACGAATCCTGGTG
ACCCTGGTAGGCTTGGCATGGTAACTTGCCAGGTTAGGAAGTTAAGAACGTTGCTCGAAA
ACAGCCCTAGATGGTACCCGTCACCTTCTATCCCCATAGGTGAGCTCAATGCCGCTGGAC
CCCTTCATTCACTAGCTTAACACATGTAGGCCCCGTATGGTGAATCGTTAACACCGTTTC
GACGAAACTAACGCGAAGATCGTTGCCCTAGTGAATTGAGGCAAACCGTTGAAAGTGCTA
GTGTTATTTTCGTTTATCGTATGTTCCTAACTGGCCCGTTTAATTTGAAACAACTGACGA
ATA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 840>:

GNMPI06TR gnm_840

TTTGCGGGTCCCGCTCCCGGTAAGTAGTCTGCTGTGGGGTGTGACGCCGATGACACCTTT
CCGTCGGTGTACACTGAGGCCGTGTGTTCGTACAATTAAACTTAAAGTTCGACTTTAAGG
TATACTTCCGAGGGAGAGGGCTACCCCGTTGCCGATGGAGCTGTCGGTAATAACGCCTAC
CTTGGACCTCCCCGTTAAAACTCGTAGGACGGCGTGGACCCTGATACTCCGGAAGCTAAG
GGAGACCCCTTGGTTCGCGAAGGCCCCGGGTGTACCGCCTATGTTGTTCGATCTGAGGCC
CCGCCCCCCTGGTAGGATCCGGAAGGCAAAGCACTTGGGTGTGGTGGACCCGCCGATGAG
CCTTTAGCCGTTGGTCGCCGCGACAACTAGTCGGGCGCTGTCACCGAGGTGCCCTAGTGC
AATTCCCCGAATTGGCGCCCCAAAGCTCGTTATACTTAAATCGTGCCGGAGTGCGGCTGG
TAAGGCACGGCCCCCTAGTGCAATGACGACGCGGTTGCGTCGCCGGTCGACGCAGGGTCG
TTTGGTAAAGTTTAACGTAGTTAACCTGACAACGTTGGTACCCCCGTTGCTCCCGTGGAA
AC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 841>:

GNMPI11TR gnm_841

GTTCCCCCTAACACAATCCCGACAAGAAGGCACGGTAACGATGTCGACAACGTTGAGCAC
TGTGATGATCACTACTACTCTAACTAACGCAAATTTCCCCCGCCTTACCCCACCATCTAC
TACCACCGTCCATACAAGACCGAAGGATGATTATGGCACCGGTACCTCCATTTTAAGTTC
CGGTAGCAATTTGACAAATACCCCTCTTGCCTCCTATGTTTAAACACCTGACAACACAAT
GCGGTACCCCGTCGATGTCCTCTGCGTTCCCTCCACACCTTACTTTCCCTCCGCTAACGT
ATAGGCTGGCAGAACCCGTAGGGTAAGAATGTCCTATTGTTCTAATGGCGGGTCCGTTCC
GTATTATGACACCGCTAAAAGTTCTCCTACCACTACCACCCGCTTGTATACCTATCGTGG
TATATAGATTCCCCTTATAGCCCCTGTCAAACGCAATTCCATCGCTTGCACTACACCTTA
AACTTAAAATTCGAAGCCTGTTCCTTTGTAAAGTTGTTCTGGTTAAAGATAAAGTTAACC
CTTCGCTCGACCTGCCGGTATCGACTTGTCGTCTGGCACCGCAAGATCGTGTGGTAGCCA
T

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 842>:

GNMPI15TR gnm_842

GGGCCTAAGGTGCGACCCCTCTGGATGACCCGATCACGGAGGGTGTGCGTGGGGTAGGTG
GTACTAAAGAATGTGTTTGTACCCTTCCCGAGGTAGGCCGTGATACTGCTTCTGCTCGTA
ATTGCTTTGATTCCGCGGACGAATCGTGTGAAGACCCTTGTACCTTCGATAACTTTATCC
CGGTGTAATGCCGGTAACACACGGTTAATATGTCTGGTAGCGTTGTTGTGTAAGTTGCGA
CGTAGATGGTGGACCCTTAAGTGGTGTAAGTTCCCGCCGTTGGTTCCGTTCTGTTGTAGG
ATATGGTGGGTGGTGCGAAAGCTGGTGAAGTTCCCCAAATTGGTCGTGCCCTAATAACTC
GTTGACCCTACTAATTGCCCGCTAGGGAAAGGTAACGACCCCCCTGGCTAGGCAGAAAGC
CACTCCACCGAACCATCCAAAGACAACGACGACCACTAATATCGCACCTAAATATAATGC
CCCAAACTTGTTTGATATGTGGTAAAAAGGTAAAATGGCACAGGTATGTTGTATCCCCCG
TGTCACAACTATGTTCCATCCAACCTGGAACGCAGTGTAATTTGGCAGTGTATCCTGCCT
GGGATGAAAGGGGTGGAGGCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 843>:

GNMPI18TR gnm_843

TTCCGCCTCCTTATGTCCCTTATCCTTAAACTTGACATTGTTGCGTTAAGTATGGGACTT
TAGCCTATTAACTGCCCGTTGCGGCAAACTAAGTTCCGTCTACATAGGTGTCTGAATATC
CTGGCCATGGCCCTGGTGTGTATGCTGCTTACTGCGAAACATCTGTCTGCTTAGCTGGTA
GAGTAGTTTATGTGGTGTACCCGCCGGGCAACTGCGTTGCTGGAAATCCTCCCTTACCTT
TATATCCCTCTTAAAAACCCCCTGTGATTTAAGCTACGGTGGGATATGCCCCGTGTAGTA
AGTCGATGTCTAATTATAACTCGTGCGGTCACGTTTGTGCGGCTCGCGTTGGGAACTTAG
GTGGCGCCGTAGTTCCCTACGTGGCAGCAGTGGGCTAGATTGCTTACAACGGCCCGGCCG
AAGGTACGATTTACGCGTAGTGCGTTGGCCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 844>:

GNMPI22TR gnm_844

TAGCCGATAAATGGTCGCCGCCCGCCTGTTACAAGTTGTAACACTAAGCCACAGTGGACC
AAACCCAAACTAGGATAAGGTAATGAAGTTGTAGATAGCATAAACAGCATGGTAAGGTGA
GACAATGTTGCATCGGCCCAAACCCAACTTATCACATAGACAAATAACGTTGCTCGAATG
TAACGCGCCTAGATGGTACCCATCCACTTATAGGCCCGCCTAAGTTCCAGACCCCGTTCG
TGAAGCACCTTAAAGCGTGGATGAGCCGGTAGGCGCAGGATACCCTGCCGCTGCATTAGG
TAATGGCCCCTATTAACCGCCCGTTGTTTATGGCTACTATGTGGGCCCGGGCTGTACTGA
AGAGTGAGTTGCACCTGACGTTGATAATGCTGGAAGAAATGACCCGACTCCTGCCGCAGT
TGCAAGACCTGTCGGTGGTGGTCCCTACTGTGGTGCCGACCCTCCTCCCGGCCATAGGGT
GCCTGAGGACGGAAATTAACCTGGCTAGTGAGTTGTCGGTAATAGGGATGTGCCGGGTGG
AGTTGCTGAGCCCGTTGCCTAACCTGGGGACAATTAGATTGACGGTTCCGGTGGTATTGG
CGTCGCCGGGTATGACGCCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 845>:

GNMPI23TR gnm_845

AAAATTTCGGTGCCATTTAATCCAACTGTTCCGTAGTATACTTTTTCCCTGTTAAGTCGG
TGGCAACAGTGAAAGAGGTTTGTATTGACTGTTTCCTTTAATAGCCGTGTAGTTCGAACG
GTGAACGGTGTTCGACGTGGCACCCCTCTTCCATGTACTCGCGTGGCACCCTATATTGTA
CACGGCGTATCTCTAGCATAACTCGTCTCGACGTTGTACAGCCAAGTTAGTTTTCAATTT
GTTAATATTTGCCGATGTGTTTCGATGGGTCCGCTCGTCTTTGGTACTTGTCCATAGATA

AGTCGCGATTGCTCTTGGGAGTCGTACGCGCTAGAGGCCCCTATTGCTACTATTGAAATG
TGTGAGCATGAAAGGGTTCTGCGACATGTTCACCCCCACAGGCCAACGCTACGACAACAA
CGGCCCTCCAGATGCTAGGCGGTATCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 846>:

GNMPI27TR gnm_846

TTCGTCAAACCAAAGnACAACTACAGACACGGCAGGGCAACCAGAGAAATATTCCACACC
GACGCAGCCGTACTCGACGCCAAAAACAAACTTACAAGACCAAGTCCGGCCCGCGGCACC
TACCTACACGTCTTACGCGTTAACCCCACAAAACCCGTAAAAAAATTCGCCAAAACCCAC
CCCCACAACTAATTCTAAGGAGACCCCACAGACAACGCAACACCCGAAACCAACGACGGA
AATAAAAGCCCGCATCCGCCAGACAAGCACAAAATACCCCCCTCCACCGAAAATAGCGCC
CGCACTGCACCAACCACCCCACACCCAAAACCCAACCCGTCCCCACACAGGATCCATCCT
AACGAGCCGGAACAGCCCCGGCAACCCCACGAGTGTATGTCTACTTGTGCCAGTAGAACC
CGGAAACACGGCCGTCAACCCAGCCCTCGTAAAAAACGAGAAAGACACTCTGAAATGCAA
CGAACACCATAAATAAGTCGGCCACAGCGTACCACCAGTACCCGGCAACCCGGTCAGCAA
CACCGTATTAGGCAGCATGCTACTGTACACCGCAAATGGAATAAACGTTCTCGCGACCGT
AAGTTGCTCTCTCGGAAACACACTCCTAGTCACCTAGGAGTACAAAGACGGCAAAGCCAA
CACTAATTGCCCCTAAAACACCCCAATGGACCCACACCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 847>:

GNMPI28TR gnm_847

AAATATAATCCGTTTAAACTGAAGAGGCCCGGTCGGTCCGTTAAGAAGAACCGGAATAGA
CCGAAATCGAAACTGAGAAATAGCCCGTTGAGTGACAAAGAAGTGTGGGTAGGGCGTCCA
CTCCCGTTCGTTAACAATGGCACAACCTGGGTGCCACTATTGGTCCCCATTGGCACAAAT
ACTAGATCCCCCGTTGATCCGGGCTCTTCGCTTTCCCTTGGTGTGGTGGTGTAAGTTCAT
GCACATTACCGTAATCTAAACGGTAAAAGTGCACACATACTAGTTTTAGTAGGACCGCGT
CTTGACGTGGACCCATTCAAAACTAGTAGTTACTAGGGAGGTGGACATTGTTCGAAAACC
AAAAAATCTAGCCAAGAAGTTAAAACATATACAGAAAGCAAAAAGAAAAATAAAAAATTC
GTTGGGCAAAAAGAATAAGTAGGTCGTTAAAGTTTTGAAAGAAAACTAAAAGTAATTAAT
TGAAAAGAAAAGTTTGCAAAATGTTAAGAAAGTACCATAAAAAACATTAAAAAACTAAAC
GACCACTTGAAAACTAAGTATACCACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 848>:

GNMPI29TR gnm_848

CCACGGCCCTCAACCTTAGCGACACCACTAATCCCACCTAGACGGGCACCCTAAAACTAA
TCCGTCGCACTCGCTACACCAATTCCTACCGCCCCCCACATACACGGGCATCCCCTCCCA
CCCAACCTACTCGAAAGAGCTGGCAGCCCCCGGCACCCGGCAACTTTAATTACAACGCCC
ACCGGATCGCTCGAACGGCCCACTCACAAACTCAGTGCGTACAGCCCAGGCGAAAACGCA
ATCTTATGCCTTAACCGAAGAAAAAGACCGCTCGAAAATCAAACCCAACCCTAGACGATT
CCAGACCTGGACCCTAAGCGTAATATCAGCGCACCAGCGGCCGGAATAGACCTAAGAACA
AAATATCCGGTGCCCTGCAGTTAAGCGCCCCCTCCGGCTGGCGGCCTAATCTACTCCGAA
TTTCGTGCACTCTTTGACTATCGACGCCATGGAAACTGGCCCGCCCGGGGAAGCACCGTT
GGACGAGCTTGCCGGCGCCTCTACCTAGTTTCCCTCTTTAAGAACGGCCAGGGTGATAAA
AACAAGCTCTTGTCCCTAACGTCCCGGCCACCCCGGCGCGCCGGCAGAATCTCCCGTTGC
CACTTACGGCAACGGCGCGTATTTCGCTCCCACGCGTTCCCCAACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 849>:

GNMPI31TR gnm_849

GCGTGGnCCCCACGGTACCCCACCGAAGGTGCGCCTGACCCGAGCGAAAAACGCGCCCAG
CCCCACCCTAGTTCCCGTTCGACCCTACTAGAAATGGCAACCCATTTGGGTAGCACAGTT
GTGTGGACCATTTGGTACAGAGCTTGAATGTTAACACCCCCGACCGAGTAGACCGGTCGT
GGTAAAGGCAATGCCAATACCCCCACGGCCTTAGTTAAGTACGGTACTAATCTGGGTAAA
GTTCGGAAGTGCAGCTATCCTCCCACCCTCCGAGCCGCAATTGCAGTGCCCGTTCGCATT
GGCCATGTTGACCCTGTTGCAGAGGCCCCTGGCTGGGGCACAATGGAAAAATAGGCCGTT
GGCAATGCCGTCGGCACCACCTAAACGGACGTTTATCTGGCTGGGACCCCTCCCGCTCCT
AATGATCCCTGTTCGTACTATGTTTAATGAATTGTGTAGACAGAGCCCCCCGGGGACGAC
CCGTTTGACGGTGGATAACCTTATGTTGTGTGACTGGCGCCCGTTGTCAATTGTACAAAC
ACAAGGGCCGCCCCCCGGACTGGGGTGGCAGTGGACACCGAAGTGCCTGACCCGGCAGGT
AG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 850>:

GNMPI32TR gnm_850

TTGCCTTTGTTGCGTGTGCCTGTTTGCTTGTTTTGTATCTGTTGCCCTTTCGACCTCGTC
GGGCACCGTTAAAAAACGGCGGTCGGTGGGGACGTCGGTGGAAAATCGGGCGCTGTTTGC
ACCCGAAAACTTTGTTTAACCTGATGGTCGGGGTGCACCGGGTGGTGCGCATGGTCACAT
TCCTTAATCTCCCCCAGATCCCCTTGGACACCTTGACCCGGCCACTGGTACGGTGACGTC
GTCGGGTCCCAGGTCGTTTAAAAACCCTCTTGTATTGTCCTGCGTCCCAAATACTTGTGT
ACCCCGGGATAAACGGTATACTAGTTCCCTTATTCGGACATGTGATCATACTCATACTTT
TCCGGGTGGTAGTAAAAAAGGTCCCCCATGGATATAGTCTAATTCGACGGTGGTAACGGC
GTCTCTAGGTACTCGGTATGGTCATGGTCGGAATCCTTCTACCCGGGGTGTGTCGTATGG
TATGGTATCGGCGTCGTCTAATATGGGTGATTGTCACCCTGGATGTGATGTGTCACGTTG
CTCGAAACATCCTGTGTTGTCTCTACGGTCTACCATTCCTTACCCTGCTCGTTCCAGTCC
CGCTGCTCCTAACATTGTAAACTTTGATGACGCTAGTGTAGCCCCTAGCGTTTCTCCCGT
TAACGTTAATGGTCGGAACGTGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 851>:

GNMPI33TR gnm_851

GTGCAGTTCCTGACACGCATGGTACTACGCCTAATAATTACTTGGATCCGTGTTGTACTT
CGATTGACCATGGTCCTGCTGGATACTTGCCTTGTAAAGATCCTTTGACCCTTGGTCACG
CGGAAACGTGCCATGATGAAGAGTAAAAATGTGCGACCCATTAATTCGCCATTACCGAGT
TGTGTGAGACTATGTTGTGCACTGCTTGCGAGGAGAATCATGGCGGTTAACAAACCAAGA
AATCATATTACTAATCCTGGTTTGTAATATTTCGTGGTGTATGGTGCACCGTGCACGACC
CCGGAGTCGGATGGTGAATAAACTGCTTGCGTTGATTTGTACACTGGTTCTCCGTATTGA
GGCATTTGAAAAATCGGTGGAAATTAAAATTCACTCGTAAGTTTCGTTTCACACGGATTG
TCCGGATCACGCCCTTACGACGGCTAACGAGTAGGTGCACCGCCCGGTAGCAGAAAAATC
CGCTGGCACTGACGCGTTTACTTGTGTTTAACATACnTGTGCGACGCCCGTTGAAGCAAT
GTGTACTTCTAACTATCCGACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 852>:

GNMPI34TR gnm_852

TCCACTCGGATAATACTTGTACTACTTCTATGTGTATTAGTTACTTTGTTAATACTGGTC
TCGTTGTGTGTGTGACGAAAATAACGGGCTCGTATAAATCGATTACTGCTGTTTTAAACT
CGACGGTAATGTTGACGATGGAAAATTTGTTTGCGCCCGATTTGGAGTACTTCTAACTGC
CCAAACCATTGGAAGAAAGTCCTACTTCTGTCCTTGGTGTGGTAGATGCCCTGGAAAACG
TTATTACCGTTGTCCTCCCGGATGAAGTTTCCGTTGATATTATTACTGTTCGTGTTTCGA
TTAGTTGATGATGTGAAACCATCGTGTTGGCGTAAATTTTGTGTGACCCGGCACTTGAAC
CATCGTAGATTGTAAATTGAGGTGAGAAAGCGGTATCGGCCCCTGGTAATGAGATCCCTG
GTCCGAGTACTGAAGAAGCTTAAGTTCGTAATTGATCGACGATTACTAATGGTAACTTTG
ATCACCCTCTGTCTAATTCTGTTTAAGTTGCGTAAGCTGCGCGTCATGAAACTCCTAGTT
AAATTGGCCTGTTTACGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 853>:

GNMPI35TR gnm_853

CTGGCCTTTGCCTGTTGCGGTGGGGGTGCCCGATGATGATGTGCCCCCCCGTCGCCCGGT
GCGTGGCACGTAGGAGCGTTGTCCTACTCCGTGTCCTGTTGATGAGTTGGCGGAAGCAGG
CTACCCTCCCCCCAATGGTGGTATCCCCGTGGTGCCTGGGACATACGGGGCTGAGACAGA
TGACGCTGGGCCCGTTCCGCGCCCGGATAAGCGTGGGTACCCGCCTGGTGGTGCCGTTGA
AACGGAGGCCGACGCGTGTGGTGGCGCCCCGTGCCCTGGGACCGAGGAGGGTGTGGTGGA
CGTTGCTCGAAAGTAGGTAGGTGATGGTGGGACGCCGTCTGAAGGTGGCAATGGTTAGTT
TGAGTGAGGTGAGGATGAAGTCGCTGTGTTTTAACTTCGTGGCCGTGCCTTAAATGGCGG
GGCGTGTGGCGCGGCCGATGGTCCCGGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 854>:

GNMPI36TR gnm_854

CTGGCTTTCGTAGCGTTAAACTTAAAGTTCGCGTGTCGAGATTGTTGGCCGTGGTAGAAT
TGGTACTGTGGGCCCGTAGGGAACGGGCAACTGCTGAAAACAATTGGTAGGCCGTTGTAA
GCTCGCCCTACTATGTTGAAATTGAGTACACTGATAATGAGGCCGCTGCAGTTGAAGTCG
TCGTTGTGCCTGTACAAAACTAGCCCTTTGCCGTTGGTCCTGCGGAACCCCCTTATAACG
CCCCCTACCCGAGAGGGGTCGAGGAATCGAGGCCCCCCGACGCCGATGATGCCGTTAGCC
CCCGTTACGGTAATTATCAAACTGGCTCGTTGTGTAAGAAAGGTGGGAAGTCGGACGATA
CTGTATATCCTGGTGATGGGCCGGTATCGACGGGGCCTGCGCATGCTGGCAACGATGGGG
ACGTTGAATCTCGTCCCGATCCCCCTAAAAACTCCCAAGTTCCTCCTTAAGTTCATGTTG
TGACAAGAACGGACGGAGGAATGGCCCGTTCCGCTGAAAGAGGTCCCAAAGACACAGGGA
ACATTGAGCCCCTGGGCAATCCTGATGCAACGTGTGTAGGCCCGGAGGGCGGAACTTAAG
TCCCTTAAAATGCCGACGTTGTTGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 855>:

GNMPI37TR gnm_855

TATTTAGATACAATGGCTGTGCCCTACTCCAACTAGTATTATGGTGTATACAACTAAGGT
CATGTTCGTTAGTACCCGGCCGGCTGACGTCTGAATAAAGGTTAGAGTGAGCCGACGTTG
TTTAATGGGCTGGCTATGTTTGCGCAGAGGAAGCAGTTTTATAACGTTATGGTGAAGAAG
GCTGTAACTAGGCCGGTGGGGACGGAGCTGGCGCCGTTGAAAGGCCCGCAGAAGACGTCG
TTTAAGCTCCGAACTACAAAATGCGTGATGTGTGCATTGGTACTGATGGTGGCTAGGACG
AATAAGGTCCTAAATAATAGGGTGAAGCGACATTAGAATGTTACTACTGTTCTGTTTGGA

ACTAGGTGGTCTACAACGCGTGTTACATTGATCGTGAGGGCGGGTGTATTGCTGGTATGG
GAAAGGACGGCGCCCCTGTTGATCCTCCCAGTAGCGCGTAATAGGGCCGTGGTACTGATA
GGGAACCGTAGTCCGGCGGCAACTATCCTGGTGGTGGCACCGGTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 856>:

GNMPI38TR gnm_856

ACTGAACTTAGTTTGTAGGTGATGTGGCAAGTACGGTGTATAGCTCTTCGTACACTTAGT
GTGCATAGACATGGATGGACCCTCCTAACTGGTAAATCGCGGCAACTGGTAAGTTACTGG
ACGACCCTCCTTGAACTATTGATGTAGCAAAGTCTGGCGTGGCCGTAGGCAGAAAGGACC
ATTGTTCTTGCCGTTGTACCGTCCTGGGTAAGACCGTGGATGGTCCCAGGTAGGGTGGTG
GTGGTAAATGTTAGTCCCCTTTGCACGTCCAAAGGCGTGGCCCGACGACCGAGCTTGATA
GTGGCAAGCCGTACGAAAAAACTGGCAAAGACGAACACAGATTGCCACCACAGTTCAATC
GTCCTTCCAAAATATGGATAAAAAATCGTATTCTTGATTGTAAAAACGTTGCTCGAAGGC
GTAGCCCTTGCCCGCTTGGTGGCCGTTGCTGGGTAGTTGGGTGGCCCAACTTATCCTGTT
TGTGCACCGCCTGGTAGCTAGTAGATCGCTGCAACTGGTAATGCCCGTTGGCCCGAGCCC
GAAGAATTAGTTCGTATTGCAAGGACTGTCGCCGGTAGCCCTTGGAGTGTCCGGTAAACT
CCTGCCGATGGTAATGATCCTGTTCGTAACTGGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 857>:

GNMPI39TR gnm_857

TCTGGCCTTTGGTGCCGGGTACTACTAACCTGCTGAAACTGCGTAACCTGCGGGTGGTGG
CTGTTACCCGGATGCCGCCCCTGATGAGCATCCTGGTGGCGTGGCTGACGAGCCTGGGGG
TAACTAGTGGTCTGCTATTTCGCATGCCTATAATAACTAAACGTGGTGGTAGTCCTAGTG
TGATAGAGGTCCTGGTAAGGTGTGCTGCGTTGTCCCTGCGTTGGCCCGAAGCTACGATGA
TCCTGACATTGCGTGTTCGATAGGTTGCTCGAACACTGGGACGGCTGGCGGTAATGATGA
TGTGTGTGGTCCCATCCCCCGTTGTTCGCCTGGTAATGTGTATGATTACTGGCCCGTTGC
GGACGCTTGTTAAGGTCCCCTTGGGTAGGTGTGATGAACTTAGTTGTGTTGGAACTAACA
TGATGAACCTGGCTACGTCCCGAGCCTTCTCCTGTCTAATGTCTGTGTCCTGCCCCTTAG
TACACAGGGAACGTTGCTCCCAACTGGACAGGTAAGTCCTGTTCGATGGTCTTATAACCT
TCGCCCGCTTCGACGACACCTTAGTTCGTTCCCGGCAATGGGGTAGATGAGGACGCTCAA
GAACCCCCCCCTTACAGGGCCGTCCCTGGGCCCGACGGCCTAACTAACTGGACGTTTCTC
CTAACACCCTAGATGGTCACTACCCACCCTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 858>:

GNMPI40TR gnm_858

CTAGTCTGCTTCCGCCTACACATCGTATACTGCATTTGATGTGTTTCGCTGAAAAAACAA
GTGCAGGGCCCGCAAGCCGCTCGACGTTGGACACGTGGTAGTCCGTTGCTGCCAACTAAT
CGGCTGGACATACTTCGTTTGATAGATCCAACTTTGCATACAAAACTGTGTACTGCTCTC
CCTTGAACGATGAATCTGACCGTGGGTCTGCTTTGACGAAATACCCCACTGATTTGGATG
TCTAAGTTGCACCTCCTTGAAAGTCTTTGCCGTAATCTGCGTACAGTGGGTGACGTAGCT
CGCCCGAGGAACCCCAAAACACTTCGTCTTCGTGCTCGGTCTACCACTCGTATTAGTTGC
CTCCCTTATCCGTTGTTTGCTTAAAACATATCGGCAGGGCCAATTTGGGCTCTAAAACAC
CCTCCACTTGTATCTAAGTTCCCTTATAGGTCGAAATATACCACTAGTACTAGTAGGGTA
AATGGTAGGGAAATAACTAGGGCTACAGATCGTAGGCCGTTGAGCTTGCTTGAGTGTACT
AGTAAAATGGTAATGGTAGATACTAGTATGTTTTATACAATTGnTCGTTATTGCGGTGTG
TCTAAGTTCCCGCTTTGAGAGGCAACACCGCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 859>:

GNMPI41TR gnm_859

GCTAACGTCCGACCCCTGGCCCTATCTACACCCCCCTTCCCGCTGGCAAGGGACAAGGAC
GTGGCGTGGGTCAAAACTTGTATCCGTTTGTACACACAGCGGACCAATAAAAATTAGCAT
GGTGCCGTTCTGTTCCAGTCTAAAGAGAATGACCTCTCAAGGCGTCGAAGTATTAAGCGA
GCTGGCCTTGCATCACCCGCATCGCTCGTGGTCCTGTTGCTCCGCTTCGACCCCCGCCAA
CTTATCACAAAAACAACAAAGAACTACAAATGAAACCCACCACTATACACCCCCGGAAAA
AACACTACCCGTGCGACGCCCCCAAGTAGGCACCCCATCACCTCCCATAGAACTGGGACC
CCACTAAACGGGCCTGGTAGCTGGTGGATAATTGTCTAAAAAACACCCCCGTTGGATATT
AAGGGCCCGCCTACATCGTTGAATTCGTTGGCCCCGTACTTCGACCGGGCGCACTGTTCC
CCGCTTCCCACAACGTTGTTATCCACACCGTTATCCCTTTGACGAAGTTGCCCGTTGAA
AACACTTTTTATAGTTCCTGTGGTAATCGTCGTGATGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 860>:

GNMPI42TR gnm_860

CCCATTCGAACGAACTGCATTAAAACCGGCATCCAACTTCGACCCTTTACTGTCGTTCAC
AGGACATCTTAAAACTAATAATAGGACCCTTCTCCGTCTTCCCAGAAACAATCGGACAAG
TATTCGAACGCACCTTGCCTAATAACCTCCGAGGACCAACGCCCCGACCCAAAGCATCTC
CATTCCTAACGCAGCCCTCACGCTTCGAAACACGCCCTTTCCGAGTCTTACTACGAACCC
CAGCTTTAACAGACCCCGTCCCAAAACTAATACCGTGGGCCCGAAATACCCTCTTACTCA
TAGATCGAGACAACTCCGAAGTAGCGCCACGTCCGCAGGAGCTCGAGAAACTTTTATCAA
TTGTAGTTCCTTTTGGCCCCGTTGTTCCCGCTAGGCCCCCGATCCCGGTAAATGGTAGGA
TGCCGATTAGGGTCCTGATGGCCCTGGTGGTACCGGGGCCCCTTCGTACTTATCGGCTAA
TGGTCCTGTTTGTGTCGACAAAGGGGCCGAGTGTGTTGGTGGTGATGTTGCCGACAAATC
TTACGTCGCCGTTTTAATGGCTGAGTCCGGTACCGCGTCTGAATACCCCCTCGCCGGTCC
TACTGGTGTGGCTGGAGAAACCGTCGTTGAGGCCGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 861>:

GNMPI43TR gnm_861

AACTAGGATGGACGGCCTACATGGTACGGTCCACCTTGCCCTTTAAACCCTGCGTGGAAC
GAAATCTCTGGTTCTGCACCGTTAAAGTACCGCGCTTAACCTTCGAAGTCGTTTGAATGA
AC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 862>:

GNMPI44TR gnm_862

CCGTGTTTAGCAGCGGGCGAGGCAGAAAGGTCGTTGTGGCCGCTGAGCCTGTTGGTCCCA
TGCCCAGGTGACCCGCTGCCTAATAGTAGCCCCCTGGCGGTCGTACTTAAAGCGCTGGTG
AGGATCCGGGTCCCGGTACCGTTGGCCCCCCGTGTTAAACGCCTAAATGACCTGGTGAGC
GTGAGGAACCTGTTTAGTGAGCTTTAGTGTAAACGGCCCCTCCTGAGGAACCGCCGAATA
CGCCCTGGCGTAGAATTGCTTGTGTTGGCCCTAAATACATTGTTGTTGCCTACTAACGGA
ATGACAGATAGTACCCCTGTGTCCGCGTTGAGCCTTAAAACCGGGAATAAGCTGGCTAGG
CAGCTGTGTAAGATACCATTGGCCATGGAGACGGCGCTCCTGTTGCCCCCTAGATGATTT

AAGTCGAATCCGGTGGTCCTCCTAGGAGTGAGGATGTGGACGCTGAGGTTACCGGCACTT
AGCCTGGTAAGGCAGGTCCCAATTCCGGTGAGTAGGTCTCCGCTGCGTGGATGGCCCCTG
CTGAGTTAGAATATGGTAGGTGCGCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 863>:

GNMPI45TR gnm_863

TACCCCGCCAACTTATCACACCCTAAACCTTTCTCTCCCTACTACCACCCAAACGTCACT
ACCAACACAACCAATAAAACCCTACCCTTACATATTGACGCAGAAGAACAATAAACCAAC
TCACCCACAAATCTTGACCTCCTTCTACTGGGCCACATCTACTAGAAACATCTATCGAAA
CACACGTTCCCCATACGGAAAACTATCAGATAGCCGAAAAGTAACTAGCTAGCCTTCGCC
AAAAATGTGCGCAGAACCCTTGTCCCACTCTAACTGGATATGGCCCTAACACGCTCCTTT
TCCTAAACATTAACTGCTAAATTCGGCTTAGTTGACCAATTCACACTTCGATTGCCGTTG
GTGTGATCGCTGGCCCTGGTGTGATGCGGTGCCCTTTGCACCCGGCTGGCGAAAATGGCG
GCGTGTGCACGCGCCCCCACCTCGCACTGTGACGTCGGCCACTGGTACTTTGACGACCCC
GGCGGAAAACGCTACTGGATGGTGTAAAGGTGCGAATGTGTCGGACGTGCCTGGTGGTTT
GACGAATGGTAAATTTACCGTTAAAACCCGGAAATCGGCTGGTCGGACGGGTCGTCTGGT
GTGCCTGGTACTACGGTCCACCATACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 864>:

GNMPI46TR gnm_864

CCCCGGAAAATTGACCCTTTCGTAAAGTCGTCGCTCGTTGCTGAAATGTGCCGAAGCATG
GCGTGGTGTAATTGAATGGGGTTCGCACCTGATAAGTCGGGTAATAGCGTGGTGACCTAG
GAAACGAATTGCGAGGCAGGGGTCGTGGCGAAACGCGTTCTCTTTGCATCCCCGATGGGT
GAGGTGGGCCTGTTGCCCGAAATGGCGGTATGTCACCCTTACAAAAATGGCATGTTGCGG
GCTAGTTTGGTAAGGGCTGAACACTCGACTGACACGTTGACGGAATCGCCGTAGAAGGTG
GAGGGTGGTGCCCCGCACGCTGGTGATACTGTTTAGCATAGTTGTAATACTTAAGTTGGC
ACCGTTCCCACCGCTGGAAAGGTGGAATATTGTTGTGCTAGGGCGGCTGTACTGGGTAGT
AGGGTGGTAGGCCTAGATGGTACCGTTCGTGAGGAAAAGTCGGTGGAATCGTCGCTGGAA
CTGGCTGCTTGCACCTTGTTGTCGTGCACGTAGTACGAAGATACCTTTCCTTCGACATAG
GGGACCGTTCGTAACGCGGTGGAAAGTTAAAAGACCGTGTTCGTTCTACCTAGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 865>:

GNMPI48TR gnm_865

CTGGCATTTTGCTGCGGTCCCCGTGGGCCCCACTGGCAACGCCCCTAGATGGTTCGCTTA
GACACCTTGCTAAAAATTGTGTTTACCTGTTGCTCGAAAATGTTATACTGCCTAGTTGTC
GTAATCGTGTGTGTAGGCCCCTTAGTAGTTCGTCCCGGTCGCCTAAACTTCCGTGGCACC
TGCAATTTCGACCTCGTAAACTGGTGACCAATCTTGTCCTTAATTGGCCCCTTGACCGGC
AGTCGTTTGATCGCCTGACCCCCCTACACCGGCTGAGTATGACGAAACCTGGTGCCCTAG
TGACGGGCCCGGCCCTGAGGCCTACGGTCCACTCTCCCGCCTACTACTCCGAAAAAAACC
ACAGCCACTTAGTAAGCGCCGTAAAAGTAACCCGATAGCCCTCCGCCTCCGCGGCGCCGG
TCTGGTAAACGTTCTACCAGACAACGCAGAACGATCCGCAAAGCCAACAACATGCCGAAA
ACAGCCCTGCTCGTCGCTCCTGGGTAAAACACTAGATTCCCGTCCACAGTTCAAAAAACC
AGTCGCCCCCCCTACATAGGCCCTCTAGTAATACAAAACGAAATTGCCTCATTCGTCGACC
TCTGACAGTCCCCCTAACAATCTTCCCCAAGCGAAGGCGACACGAAAAATCCCCACCGGA
ACTATTCCGCCCCCTAAGAACACTAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 866>:

GNMPI49TR gnm_866

GGGTCCCCGCCTCCCACGATAATCGTTACTCGCTGGGTCTTGAGCTGCTTCCGATGCTTG
AAGAGCCGTACCATGGCGCCGCGTAGAAGCCCCAGAATGGGAGATTCCAGCTTCGTGCAA
CTCGGGGTACATCCTAGACAAGTAAGGGAAAATTCATAGTAGTCTGCTAGACATCTGCAG
AATCCTAAGTACCTGCGTCCGATCCGTCAATATCTTCTTCGCGTTCCCTACTACTGGCTG
CTGCGTGGGCAGCTTGCTTCTCTCTGGCACTTACTGGGTTAAAACCGTCTTCTAGATCTG
CATAATCCGTACTATTAAATTCAGGAATATCCGAGTCAATTACTTGCGAGTCAAGCTTAC
TTACTTCCTATGGTCGATCCTCCGTAGCGATATGCTTATCTAAATTCTCTTCGTCAGGCT
ATTGGTTTACTGGGGCTTCCCCTGCAGGCTTCCTCTCAGGGGCGCGGGCTTCAATCTTGG
CTTCTGCAAAGATCTCTAAAGAGTCCTAATTTATATTAAATTTAGTATCCTCACTACTCC
TACCCTAGTAGTCCCAGCTCCCTCTAACCAGATCACTCTCAATTAAAATCTAGCATTAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 867>:

GNMPI50TR gnm_867

TCCTTAATGCGTTCTTCGAGTTACTAGAAGTGTCCCAAATTCCTAAGAATCCTAAACCGA
CTCGAGTTGCAGGCAAATTTCTTTATATGGGCTTCTACTTCACAGATAGGCTTCTTCAGC
TTCTTAAGATCCCTCTCTTCTGTAGTTTGCTTCAGTTCTTCATGATCCTCACTCGCTTCA
AACGTTTGGGCGCTCAAGTGGTTCTATCCCTGGGCAAAATAGCCCCAAAATCTAAGCTTC
GTGCAACTAGTGCCTCCTCCTGTGTCTTGCAAACAGCAAAAATCCCAAATAGGCTTTTGT
TAAGTCCGGAAAAGAACCTGTCAAAATAAATTCAGGTGATTCTTCCAAATTCAGGAGCAA
AAATAAAATTAAACGTGCCCATTGTTTTATTTCTTGGGGTTATGCCTGCTGGCTTCTCGA
TTGCTTTGGGAGCGCCGAGACTCTCAAACTTCCTCCTCAGAGCTGCTAAGCCTATATCTC
TCGTCCCTGCGGTCGTTGGGGTTGCTGTCGAGGGTCTTGTGCTGCCCCTAGGGCCCCTAC
TCAGATTCnTTCGGGGGCTTCGGGTCGTTAACCTGCCCTACCTAGATCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 868>:

GNMPI51TR gnm_868

TCGGCTTAAATATCTTCTTGGTCGCGGTCCTCCTCGGTTTAGGGGTGATATTTTGGCCCT
CCATGGTTTCTGGCATCCTAATTCTAAAACTCCTTGCTGGCGGTTTGTATGCGTTCTTCC
GGTCCATCCTCGGGTTTGGGTTCGGTTTGAGGAGGGTAATTGGCTTTTTAAGTGTCAGCT
TATCGGTCTCTTTACTCGCAGTCCTCAATCTCCTCTCCGTGGGCATCCCTACCGATCTGA
TTGCTCCTTCCAGGAGCTTCCTTACGTTCATTGCATTGCCTGCTTCTATCATAACAAAAC
TCCTACCAAGAATTCTGAGTACCTCAAAGCCTACTAGTCCTATCATAGGGTTCATATCTG
GTACCTCCCGCGTCAGGGTAATTAACGTGTTCATACTCCTGATGATTCTCATGGGGATCC
TAATAAACAAAGTCTTCCTAATCGTAATTGTAATTCTTCGCGAGCCTGCCAGGAGCCTCC
TACCCTCCTCCCTCCTACTTGCAAGCTTCCTTGGGTCCGGTGCAAAGATTACATCTGCCT
AAATTAAACTCCTGATAAACATAAATTCGAGCTTTGTAGCTTCnCTTGGGTCCGTCACGC
CTCGAAAAATATTCCTACCCTCTAAAGTCCTCGCGTTCTATAAGGGATTTCAGGTACTTA
TCATAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 869>:

GNMPI52TR gnm_869

TGGAACTCGTCCATAGGGTTCCTCCTCCTGCGCTTCGTGCAAATCTTTCCTCCCCCAGCT
CCTGCTCGGGGTTAGTCAGAACTAGAGGGGTTCCATCTCGGTCCCCTCCCGGGGTTTCCC
TCCTTCTTCAGGGCGGGCTCTGGAGAGACGCCAGGAATAAAAAGTACCATAACCTCATCA
ACTTCTACATACGATAAAGACGATCCAATTCAGGTATGGCCGCTGGTACTATTGGACACA
AGTCGGTGTGGGCACTGAACCTCACCTAATCTTCGATGCCGGGGGCGGAAGTTATGAGAA
AAAATATGCTACTAAAGTCGGGAAAAATAACTCGTTGGGGGTCCGTCCCTCCAAGATCCT
ACCCGTCCGGGTTACTACCTTGGGGGCTTGGCTTCGGGTCAGGGCTCTTAGCAGGGGCCT
ATGTCCGATCTTTCGCTCTGTTGCTAATAGTCTCCTCCCGATCTTCGTCCGTACCTCTAC
CCTCGGTAGTAGCAAGGTCAATCCTAAAGTGGTCCTACTCATCCGGGGCTCGGTCATCCT
GGTATGTCCGGCCTGGGCTAGGAACCTCACCGACGTCGGCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 870>:

GNMPI53TR gnm_870

GCCCTCAAACCTATCCGAAAACAAGTCTTGAGGGCCCTACTGGTCTTAGGGATTAGAGTA
ACTGTCCTAATCCCTCTCGTCGTAAAACTTAACGTTTTCTTTTGGATGCCGAGCGCTCTA
ATAGGATATTCTTCATGGCCCATCAAATTCGTGAGAGTACTGCCTTCCAAAATTAATTCA
TGTTCGGCGGTTCGGCAGGGAACCCCAAGCTAAGCAATTGGAAGAAATGCAAAAATAAAT
GCGGTTCTTCGATCCCCTACTCGCTCCGCAGGCTTCGATTCGAGAGGGCCTGGGGCCGCT
GCTGGTGCAGGTTCGGTCTTAGTCGCTGCAAAAGTACTGGGCTTCAATAACAAAGTCTTA
GTTTCTTCGGGATGTTGGGAATCATCAGTCAGCACCAGGGCCCGTCGTGCAAGAGGCTGC
GTACTGATTAAAAGGAGCTACATAGTGGTTAAAAGGGGGCCACGATCTGTAAGCTCGGTC
CTCATCCGCAAAATACTAAGAGTGAGTGCAGCATGGAGGCCGTGGTAAGGAACATGCTCT
GCATGATCATCCGAAGGGCGTGCTGCCGTCCGGAGTTCATTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 871>:

GNMPI54TR gnm_871

TAAACTTGGCAAATACTTTCTCTCTTTCAGCCGGCTTAGTCGGCTTCCTACTAAACGCGT
TATTAACTGCATTAGTTGTCAAGTCTGCCTCCATAAACGTCATTAATGTAGTCGTCCTCC
TCCGAGTCTAAATATTGGTTGCGGCCTCCAACCTAAACTTAGTCCTAAAGTGGGCCTCCA
ATATCAGGGCCGCCAACAAGTTAAAAAAGGAGCCTCAAAAGCCTCCTAAAACCGTGCGCT
TCTGCTTCATTCAGCGTCGTCGGCTTAAACTTGGGCTTCTTCAGCTCCAACTGCGCCGCA
AACATAGGCTTCTTCAGCTCCAACTGCGCCGCAAACATAGGCTTCATCGGCTTCAACATC
ACAGCAGGGGCCATAGTCCGTTCAAAGTTCTGCTTCTCTGGCTTCAGGGCTGGAAACTTC
TTCCGATCCGTCGGGCCAATCCCTTCCGTCCTCGCGGTCACGGGCATTAAGGTCTACCTC
CGATCAAACTTTGGCTTCAACTTAGGCTTTAAACTAAACTCGGTGTCAGGCTCCCTCCTC
CTCATATCTGCCTCCTCAGGCTTAAAGGTCCTCGGATTCAATAAAGTCCTGATAGTGGTA
TTCCTCCTCCTCTCGGTTGGCACGGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 872>:

GNMPI56TR gnm_872

TCCGGTCGTTATAAAGAAAACTCCGGGTAGCCTCACGATCTCCCTCAGGGTCATCTCTTC
TTCGGTCTTCTTCCATACTCATCCTCTCCCCTGCTCCTCGAACGCGTTCAGAGGCACCGT
CCTCACTACGGGGGTCAGGGTTTGCGTCAGGGCAGGGGGAGTGGGCCGGTGCAGGGTTAA
CAGCCTCTCCAGCGGGGCGGTCATCCGTAGGGGCTCCAAGAGTCACCTGGTTGCTCCTAC

CGACTTCATATTCACCTCCCTCTCGGTCGCGAGCCCTACCGCCTCTAAGGTGGCGTTCGT
GACCCGGATCTGCTTGCTCGTCCTCCTCAGCACGTTCATAAGTAGCGACAACTGCCGCCG
GGGATTTCTATTCGGCCCTTTCACTACGTTCAGCATGGTCTTCTGGGTCAGGGTCACCCA
CAACTGGGGAATCATGGCCTCGGGGGGCAAATGGGGGGCTACCGGGGCAATAATAACCTC
CTGCATCGGGCTATGTAGAAAGAGTGTGGTAAGAGTGGTCCGTCCTAGAGCTTCGTTCAA
TTCCCGGGAGAGGGTACATCCTAGGGGCCCAGGAGGTCCAGGGGGCTCGATGTCAACCTG
CCAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 873>:

GNMPI58TR gnm_873

AGGCCTCTCnAAnAAnAAAGTTGTCTGGGTCCTTCTACTAGTAATTACTTGCTTTTCTGT
CATAGTTCTCGTAATATGGGCAAACCTAAATCTCAGAAACGCTGCTTCTGCGGCTAACTT
CAAACGCTTCAGCTACACCTAATCTTGGAGGTCTTGGCCCCTAGTTCTTGCAAAAATAAA
AGTCTCTGGAATAAATATCAATGCGGGGGACATCCTATATGCCAACGTTAACATCAACCT
ACTTACTGCTGGCTTGGAGGCCGCCCTCTAAAATCACCTCAAAGTAGGCGTCAGGGTGCG
CTTCCGCTTCCTCCGAAAATTGGCCTGCGTCCGCTCTAAAGCCTCAATAAACCTACAAGT
GATCTTGGTCAGAGTCTTCAAAAATCTTGGCTTAATTGTAAATTCTCGAGCATTTCTCTT
CCATGCATTAAGAGTTATTTTCAATCTAGTCCTACTCAATATCAGCTTTCGAGTCTTTCA
TGCCTACCTAAACTTCATTCGCGCGGCCGCCATCTCTTTGCTGTTCCGGGCCCTATGGGA
TCTTCTAAGTTTCATTGTAAAGATTCTTAAGTTCnTCAAATTCGTCTTAATTGGGGCCAA
TACTAATATACTAGTTGTCAGCTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 874>:

GNMPI59TR gnm_874

ATTATTCTCCTTCGATGCTTGAGTTTTGCTGCGTTAGCGGTAAACTTCGTTGCTGTCCAT
AAGCCTATACTTGTGTTCAGTTTCAATGTCAATATACTTGTAGGATTTCTAGTCAGGGTA
ATTGCGGGGCTTCGGGGCATCAATGCACTAGTTTTCAGGATACTATTGGAGCTTCTGATT
CTAATTCCTGCCTCTAACATAAGATTTGCGTGCAATGCGGCCAATGCAGGAATTCTTAAT
GCATTCAAAAACCGGGAAAAAGACACAAACTAGGTCTGCTTCGTCGGCATCTTATTAGGA
GGTACATTCGTCCTACTAAATACTCGTACCTTAGACAACGGCATCAACAACCATAAAGTA
CTCCGTAAATTATATTCACGAACCATACTCAGCTTTCGGCCAGAAACAAAAATCCnTGTG
ATAAATGTCCGGATAAATAATAGATTTCGATTCAGCTACAAACTGAGAGTCACAAATGCT
ATAGGATTTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 875>:

GNMPI60TR gnm_875

CTCCTCCTAACTTCTAAAAGTTTTCATACTTCTTGTAACCTTCCTCATTGTCGAGGTGGT
AATATTCCTCCTCTATATTCTGATGTATATCGTCCATGTGATAGTCCTAATCCTCAAGGT
AGTTAGCTTTTTACTACTCCTAAAATTAGTAAAATTCAAAAATGTGTTATATTCGGGGAT
CTTAAAAATGATTGTCCTCTATAGATGGGGGGGATACAAGCACTTCTTTCTTCTCTTCTC
TTCCAAGTCTCCTAAAAGCTTCTTGGAGGTTCTGCGGGTCCGTACTCAGCACAATATCGT
CAAAGAACGTCCCAACCGGGGCGCCCGCTAGGGTCCAGTCGGCAGCATCATCCCGATCTT
TAATACTCAAATTACTCACAAATATAGTCTTAGCTCCGCCGTCGTCGATCGCGTCAGCAT
CCTCGTCCCGCGTACTCGGGTCCCTCCCCGCAGCGCAAGGCTGGTCCTGGTGGTCATCAT
GGGGCTTTTCACGGGCTCTAATGTCGGGCTTAGGCTCCTCAGCTCCGTCCGGGTGGGCAT
CTCTTATCAATTCAGCGGCTCTACTCGCTTACGGGCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 876>:

GNMPI61TR gnm_876

AAATTCTGTTCTTCGTAGGTTTCTCTACCTCCCAAGTGACATAGGTAAGCTGAACCTAAG
GGAGTCCCAAGCATGCAAATGTAAAAAATGACAGGTTTATGGGTCGCCCAAGCATCCAAG
CGACCGGTCGCCCAAGCATCCCAGCTACCGGGTTCGAGCCAGCCAGGTCGTAGGTTTCAC
TACATCCCAGTGACATAGGTAAGCTGAACCTAAGGGAGTCCCAAGCATGCAAATGTAAAA
AATGACAGGTTTATGGGTCGCCCAAGCATCCCAGAGACCGGGTTAGCTCCATCTCGGTCC
AGGTATCATGCTCTCCAAAGCATCCCAGGGGCCGCGAGGTTTGAAAAAAAGAAAAAAATA
GGGCTAATGGGCGGAAAAAGAAACCTGCGCGGGGAATCAGCGCGGCAGAGGGAAGGTGAC
AAACCGACTGAGGGAAGACGGATTGGGGTGGAGGGAAAAAGACTGGGTGTAAAGGTTAGC
AATCTTGTAAGATCAGAGCTACAGCTGTGAGTCAAAGGAACGGGTAATAGGGGCGGGAGG
AAATAGGGGAGGGGACTTAGGGGGTAAGAGATTTTTAAAGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 877>:

GNMPI63TR gnm_877

GCCTAAAAACCAGCTCGGGCTACAGTTGGGCGTCCCGTCCCAACCCGCGGGGCTACTCCA
GGGGCTTGAGAAGCACACCCAATCTAAATTTCGAGTCCTCCAGCTTCTTCAGATCCCGGG
GATAGGAGTCAGCTTCGTGCAAACCCCGGGGAGTTCGGTACCTAGATCCCTCTCAACTCC
ACCAGCCGCGTCTCTACCATCAGCACGGGCTTCGCAAACAAAGCTCGCCAATTCCTCAGC
CGAAGCATCCCTAAAGTGGCTCCGGTTCTTTAGGGTACGCTGGGTTTCAGGGTCATCATG
GTCGTGGTTCTCTTCGCGAGTAGTACTCGGGGCCTAATCGGCCCAATCCTCCATCCGGTT
CCATCCGTCCGAGACGCCTACATGCTTCTCTTCAGCACTACTAAGAAAGTCCCGCGCTCT
CTGGCGCTCCTAAAGCGCCTCATAGAATTCTTCAACCACAACTTCCAGAACCTAAAGGTC
CCCCTGGTCCCCGCGGCCCTCTCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 878>:

GNMPI65TR gnm_878

CTTGGGGTTCATAGCTTGGTTCTTATAACTCTCGGCGACTTCTTGGTCATACAACTTCGT
TAATTGGGCCGGGGCGACTCGGTTCTATCCGGGGTAGTAGGCAGCTCCGCGGGCAAATCG
GCCGAGGCTAATTACTTCGTGTAAAGATCTATTTCGGGCGGGAGTCTCTAATGCAGCTTA
TCTACTAGAAATATTTTTCTTAGAATTAGATAAAGTATGCTTGCTTCTATTCTTGGGCTT
CGGCATGCAGCTCGCTGCCTTCCTTTGCTTCTTTAGTATCTTCAGGCTTACGTCCTGCTT
GGTAGGGGCTTCGATAAATATTGTCTTCTTCAGGGCTATCTTGGGCTCTTATTTCGATCT
ACTTCTCTTCTTTTCGAGAGGGGCAGCTCATTCCTTCTTCAGCAACTCTACTTATAAGGG
GGCATCCCATCCAGTCCTCCTAGATATCGTCGTCTTTTGCGTCCTCCTATCTACTTTAAA
TAAACGAGGGCTTCTAGAACTTGCGGCCCTAGAGAAAATTCTGGTTCTTGTCCCCAGACT
TAAATCTGCTATCTTTAACTAAAAGTTCTTGGTCTAGGCTGGCACTAAGAAGGTCGATAC
GTTTGCTTCCGAAGGGGCGGGAAATCTAAATCAATTCCAAGTTCnTCGGGGGCTTCTAAG
TACGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 879>:

GNMPI66TR gnm_879

ATATACGAGCATATAGAAACTCGTAAGTCGCGCGGCTTTGCGGGGCCAACCCAGGCAATT
GGTTAAAAGAACGGGGCAGGTGATTCTTTTCACCCATACAGCGTTAACGCCTCCCCGGTA
ATTCAGAACCAAAGGGGAAGTAAAGACAAGTAACTTGCGGGAAAGGGGCGAAAGCTCCTA
GGGTACATCCTAGGGGAGCTTGGCTTTGTTAGCTTCGCAGCGGTCAGCCTAAAATTCTGG
TCCTCCGACCTCCGAAACTCGGTCTCTCTCGTCCTCACTGTGGTTAACTGCGGCTTCATC
AGGGTTAAAATCTCTCTCCCTAACATTCCACTCCGCGGTTAAAAATTCGTCCATACCGGT
AAAATCCGTAGCTTGGTCCCAAGGTCCCCTACAGGCTTCTTCTACCTAACTACCATCCAG
CCGGTACATCCTAGCCTGGTGGTTCGGGTTTAAAGGGTCGCTCCAAGCAAATGTGTCCTT
GTCGAGGCTTAAACTAGGGGCGTTAAGGTTGCAACTGCTTTCAATCAAGTCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 880>:

GNMPI67TR gnm_880

GGGGCTGCTTTnTCGGGGTAGGGCCGGAACTCAATTAGTTAGAGGGACAATAAATGGAAA
CGGTTTAGGGGGAGTAAAAATTGTGAAAGCAGGGGGAGCGGCCTTAGTGAAAGAAAATTG
AGTATTCCGGGGGAAGAATTTGGCCGGGTGGGGGATTAACAACATACATGCTTTGGCTGC
TCGTCCAACTCGGCGTGGGGTGCAAAGGGCACTTACTGCGGGGTTAAAACCAGGAGGGGG
TAGCGAGCGATGTAGAGGTCCGATACTATTGGGAGGACCCAGAGAACCATCAGGGGGGGT
GAAAATGGTTGGCATTGGGGCGCTTCTGGTTTTGGGAGGACTCTCAGGTACTGTGCGGTT
CATCATAAGAGTAAGAATCCTGGGCCTAGTCGGTTAAGTTAAGCGGGTCGTCAAGAACCG
CCGTACCGGCGTCCTGAAAGGAGAATTGGTCGTGGGTAATCGTGCGGGGAAAGTGTGAAT
CGGCAGGGGTTTCGGGGGGAAGTTGGGGTGCCTGATTGGAGAAATTATGGGGCTACTACG
GATAATACTGGGAATTCTAGGAGGGGTGATTCTCGGGGCGCTCCGGGCGCTACTACGAGG
CATAGTGTTGTTTCGGATCTTGCTAATGCGATTGCTTCTAACGGGCCTAGACCTCCGAAG
G

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 881>:

GNMPI68TR gnm_881

CGATCTATCCTCCGAATCAAGTTCCTCACCTCTATCTGCGTGGCTCCTGGTACATCCGTG
AAGGGCCGTCCGCTCAGGGCCTCCATGGTGGCCCTAGATCCCTTCAATCCCGCCTTCCAT
ACCGAAAACTTCAGCATCCGGGGGGTGGTCCTCACGGGGGTTCAGGTCTGTTATAGTCCT
CTCGTCAGCACTTCTATTCCGGTCAGCCTCGTGGTTAGTAGCGTCAAAACTTTCTTTGCA
GGCCTCGGCCTCCTGGGGGCCGTCCTCGGCGTTAGACTCACCGTCAGCGGTCTTAACACT
AGCCTCTCCGGCCCGGTCAGCTGCGTCAATCTCTTCTTCTCGAGTACCCTTGTCACCCGC
TCCTCCGGTAGCGCGGTGGGCTTCATCTCTGTCTACAACGTTAATACATTCCGAAATGGC
TTCTTCTGGGCTTCTCTCCTCCGCAGCCAGGTCATCCTCCTGGTCTTTCGCTTGGGAAGT
CTCTTCACTCTCGACTCCAGGGGTAGCGTTCCAGATCCTCGCAACTCCGACGTCCAGGTC
GGCAGCGTCCCTCCTACCAATGTAAGCTTCGGCCTCTCCTACGTCGGCGACAAAGCTGGC
ACTGCCGTCCGCGGCGTTAAGGTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 882>:

GNMPI69TR gnm_882

AATACTCTCCTCTGGCTAAAAGAGCCCCAACACTGGCAGCTTCGGCCGCAATAGAGTAGG
AAACTTCTGTACCTACATCTGGGCGTCTCTAAGATCTTACTCCGGCTCCAGAAGCCTGGG
AAAATCCGTACAAACTGCCGTCGCGGTCGCGGGGGTCTTCTGCGAAAATCTTATCTGGGT

CCTCGCCGTCTCTATCTCCAGCACCCAAGAATCCGACGTCTTCGGCACGGGGGTCGGGGT
AGAAGGCGAATCAAGTAAACCCGGCTTGAGTTATAGCCTCAGAAACCGTCTTAAAAGTAT
AAAGAGAGACATAAATTAAATCAGCTTCGCTCCAAGCGTCAACTTCAATATCCGTACCAG
CTTACTTAACTTTTCTAAAATAATCCTAAAGGTTACACAACGAATCATTCAAGGCATTAG
CTTCTCTATAAAGGTCAGCCGTCAACTCAGAAAGGTTGCTCTCGTTGCGGCCAGATCTGC
CGTCAGCGGCGTTCCTCTCGCCTCCTCTAGGGCTACCTCCGACGACGGGGGCGTCCTAAC
TTACTCGCTGCGTACTATGGTCGGCACTTCTGTTCATTAGGGAAGTCTTAACTTGGCAGT
CAACAACGTCGGCATCATCGGCGGAAATCTTTCGAGTACTATTATCTTTCTCGGTAGGCT
ACTAAATAGGTAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 883>:

GNMPI70TR gnm_883

CGCCTGGGATGGATTGGGTGACGTAGCAGGGAGTGTGGCCGGGGGGTGCTTTAAAAAGGA
CTATAACGTTTGGTGCGGCGCACAAATGGGCCTAAAAAGAGACTACAGCCGGGCGGCTGC
GGCGGGAGGGACCAGGCCCCAGAGAGAGTTGCCGGCAAAATAATACGGGGCAGAGCTGAG
CCATGCGCGGCCCTGACCAAAAAAGGGAGCAAAAACAACGAGTGCTAAACATGCTTAGCG
CTACGTGGGGGGCGGCTTCCGTGGGGGCGCGTGCAGCTTCGTGCAACTACGTGTGCTATC
ATTGGGCGCTCAAGAGGGCTGATATGGCCTAAGTTCGTTAGGGGGGTGTATCTGGAGCTG
CATTGAGATTTTCTTTCAGCTTTCATTGTTTCTTAAAATTTATCAAAACTTCGCCTGCTG
CTGCGGCAGCCTCGGGCTTGCCGGCGCCTTTCCTCGCGGGGTTTATCAGGGCGCCAAGTT
GCATCAATTGCTTCGTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 884>:

GNMPI71TR gnm_884

GGGGAAATAGAGGGAGGGGGTCGGGAATACAAGAGAGTCAGGAGAGTACATCACTGGGCA
GGCTTCCCGGGGCTGAGGGGGGCGGCGAAGAAGTAAAGGCTATCGGCATGAGCGTGGGTG
TCCGAAAAAAGAGAATCCACTAGGCGGGGAACTTGGGTAGAATCGGTAGGAAGGTTGATCT
GAGTACCGACTTAACCCCAACTGGGAAGGGTAAAAACGGGTTAAGGGCCAATTAGGAACA
AAGTAAGAAGCCGATTCAGGTTAAGCATAATAGAGTGGCCGAGCGTTAGTCCAGAACCAG
AGGGGGGGTGAATTGTCAGGAAAGTAGGTGTTAATGGTTAAGAGGTGGTAGTAGTTTATA
TTTTCGTAGTAGATTAGGGCTTAAGAAAGCAAGGGGTCGTAGATTTTGTAAAATAACGAA
GAGGGTGGTGCAACGGGGGGAATGTATATAGAAGATATAGAAGAAGGAAGTGTTAAGATC
AGGGACCGGGGGAGTAAAGCGATTCGGGTGGCGGGTGGGGTGCGAAGCGGAGGTAGTCGA
CGAACCGGTGCGGCAAGAAGGCGTGGGCTTTTTCCTAAGCAGACGAATAAGGGGTTTGGG
GCTGGTTTAACTGGCGATGTTGAGGGTAGTAAATGTAGACATAGAGCGTCCAGAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 885>:

GNMPI72TR gnm_885

CGTGCCAGGTTTCTTGCTCTCCCAAGCATCCCGGGTAACAGGCTACGCGGCGTCCCAAGC
ATCCCGGGTAACAGGCTCCGCGGCGTCCCAAGCATCAAGTTAGTTAGATCCAAATTGCTA
TTATCGTAGGTTTATCCAACGCCCAAGTGACAAGTTTCCCCGGGTACGTAGGGTTCAGAC
AGGTTTCTTCTCGTCCCCCGTGACAGGTTTCTTGCTCTCCCAAGCATCCCGGGTCACAGG
CTCCGCGGCGTCCAATCTAATGCAATTCGTAGGTTTATCATACGCCCAAGTGACAAGTGT
CCCCCGGTACGTAGGGTTCAGACAGGTTTCTTCTCGTACCCCCGTGACAGGTTTCTTGCT
CTCCCAAGCAGCCCGGGTAACAGGCTCCGAGGCGTCCCAAGCATCAAGTTAGTTAGATCC
AAATTGCTATTATCGTAGGTTTATCAAACGCCCAAGTGACAAGTTTCCCCGGGTACGTAG

GGTTCAGACAGGTTTCTTCTCGTACCCACGTGCCAGGTTTCTTGCTCTCCCAAGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 886>:

GNMPI73TR gnm_886

GCTTAATATTCTTCCAAGTCTTATCAATAAATTTCTTCTTCGTCTTATTACGCTTGTCTT
AAGTCCCTTCCTAATTCTTCTAAGATGTAGTGCTTTCTGGGCTTTCAGAGGCAGTACCCT
CGCCGAAAGTTTTTAAATTCGCTTCAATACTTTCAGAAATCCTCTCCGTCTCTTCAGCCA
CCTAACTCTCCGTAGTTTCGAAGTAAATTCCTCTAGAAGTGCTCTTAGATGCAGCTCCAG
GGCAAGCATTAAAGATGTCCGTAATCCTAAACTTGCTCTTACGGTCCATCTGGTCGGGTC
CTCCGACGGCTCCGAACATGCTAAGCTTGTGGCTCTTACGGGCCATAAACCTCTAGTCAT
CCTCTCTATGGGGGTCATTCTCGTCGGTACTCATAAACGAGTCTCTAGAGCTTCGGGCAT
CCTCCTAGGTTTGGGCTCTCTTTCAGATACTGGCAGCTACTCTAACATAATTAAATATTA
TCGGATCAGATGTAGTAATACTAGTAATATAAATATATTAAGTACCATCCCAGTCTTTCA
GGTAAATATGAAGGGTAAAGGTAGAAGCAGGTTAATATGCAAAAAATTAAGTAAATAGTT
AACTGCTTCTAAATTCTGCTCCTAATTCTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 887>:

GNMPI74TR gnm_887

GAGGGCATGGTCATTCTTAGTGTTAGCGGGGGTAGGTGGCCACTGGTTGCGGTGGGGACC
TCCATAACAAGGAGCAATTTAAATTTTGGTTCGGGTTCTTGCAGGATTTGGCATCAACGA
ACGAGCTTAAGTCCTAATCCGTACAGGCGACCTGGGCACTCCGGGGCCGGGCATAATCCG
GGGCTCCATCCGGGCCCGGTGCTTCTGGGTCCAGAATACTTGCTGGTTTCTGGGTAAAGT
GGTTCTGGGAAGTTAGGGCTTCGTTCAAGAAAATCCAGCCAGCTCCGGCCAAAGTACCAG
GGCCTGCGGCTTCAGCTTCGTGCAAACTTCCAGAGTCTGGTACATCCTAGGGGCAGGCTT
CCCGGGGCTGAGGGGGGCGGCGAAGAAGTAAAGTCTATCGGCATGAGCGTGGGTGTCCGA
AAAAGAGAATCCACTAGTCGGCGCAAGTGGGTAGAATCCGTAGCAAGGTTTATATGAGTA
CCTAATTAACCCCAACTGGGAAGGGTAAAAACGGGTTAAGGGCCAATTAGGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 888>:

GNMPI76TR gnm_888

GGCTACCCTCCTCGGCACCTTCATCCTCATCCGGGGCTTCGGCGTGGGCTCCTCTACCCG
TACGCGCTTCGGCAGGGTCTTGATATTAAACCAGAACACCGCCTCCTCCCTAAACTCGTT
TGCTAGGTTCAGCTTCTTAAACTTCCGGGTCCCCCTGCTCTTCCGCACCACGGCCATCAT
CCATCTCCGGATCTTCATTCGCTTGGTCGTCTCTCTCTTTGCTAGAAACCTGGTCAGCTT
CTTCTCGGTCCCTACTGTGGTCTTCGAAACGCTGGGTACATTGGGCAGAATTAGTACCGA
TCTCTTTCTCATCCGTCCCTACCAAGCGTTCTATACCTCTATCCTAGTCCTCGACTCCGA
ACGCACCAGCTTCGGGGTCCTTCTCTTCACCAAGGTCCTTAAGCTCGTGGCCATCCGAAG
CCGTCCCCTGGCCGGCAACAAGCAGCCCAAAGCGGTGGCGCGTAGAGCCGGGCGTTGGGT
CCCCTCCTCCTTCGGTACATCCTAGTTCGTAGGGGGGCGCGGGGAAAATCACAGACACCA
AAATCACGTTCTTCCTAAAGGTGATGATGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 889>:

GNMPI77TR gnm_889

ATAAAATAGCTACAGGGGCCTAAACGCCTTCGAGGCAGCCCTCCGGGGGTTACTCAATCA
CAAAGTGTCTGCCATACTCCTATTCTTAGGGGCAAGCTGGGAAAAACTAAACCTAGACAT
CTAGATCTTGGTCAGTTGAAACAAATTTTAGGCGTGCAAGGCAACCTATAACCGGGGTAC
ATCCTAGGTAATAGTTGGTATCCGATGGATCCTCAACATCCCCTCCGGTACCCGCTAGGC
CAATGCGGCCCTAGGTTTGAGATTCCTACTCCGCGTCTTCTAGTTCTTAGTCCTAGCCAT
AAAGATTCTGCTAAATGCAGGGCCTACCTAGGCCCAGGCTTTCGGTTTCACGGTCTTCGT
TGCTATCATCATATGCAGGGTCAGCTTCGTCAACAAAAAGCCCTTGCTTCAGCGGGCGCA
AATTCCTCCTTCAACCTACTACTCGACCTCGCCGAAAACGTAAACCAAAACCTTCGTGCA
AAACTCGGGATCAACAAGGCAAATATTGGTACCCTCAAAGTAGGCTTCAATCGGGGAGTC
CTCCTCCTCAAGAGGTTGCTTTTCGTTGCAATCCTAAACCCTGCTTTCCTAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 890>:

GNMPI78TR gnm_890

GTTCTTCTAATGGTCCGAGCTTTTCGTTGCAACCTGATTCTAAACTTTGCTCTTGCAGCA
ACGATCCTACAAAAAGGTCCTGGCTTTCGAAGCATTGGGAGTCAGATCTTCCCTCTCGAG
TTTCCTAGTCCTCTCCAACAATCTCCCTACGTCCAACTTAGTCCTAAAAATTGCGATCAA
TGCATCTCTTGCTCTCGGTTGCGGGGCGCGATTCGTAGTCCTCAACCTCCGGTAACTCCG
CTCGGCCTCCGTCTTTGACCTCAGGATCGTAAGAGCTGCTAAGATGTCATTGAGGTGCGG
AGTGTTTTTCAACCTGCTCTCGTGAGGGGCGCCAAAATTCTTCAAAACCTCCTCCAGCTC
CTGTAACTGGGCCCTAGGATGCTGCATTCTTGCTAAAACTGCCATGGCCGTCAGATTCGT
AGTAAACAATTAGGCCCTCCTCTCTAGTCCCAGGGTCCCTAAATTAGCAAAAATCGAAAA
CTTCGGGGCCAAAAATAATGCTATCAACTCTAAACTAGTTTCTGGCTTCAGGGCTGGGGC
TCTTCGGGGCATTCTAGGAGCCTGGATCCTAAAAGGGTCCAATAAGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 891>:

GNMPI80TR gnm_891

AGCGAAACCGATGGACCAAAGCAGAAAATAAAAGACGGGGCGGTTCGAGTTGCAACTAAG
CTGGTTGAAACCAGGGAAAGAGTTCTAAACGGAGGGAAAAGGACTGTAAGTTATGTAGCT
TAGGAATGATCAGCAATAAGAGGTGGGGTTGGCCGCCGGGCAAAAGCTACAAACTAAGAG
AGTACAACGAAGGCATAGGGAGGGGCAAAGAATGCCTAGGTTAAATTGAGGATTGGGGCT
GACAAATTAACACGCCCTGCTTGCGGGGCAGAGGGTACAGCAAGTACCGAAGTTGAAAAG
GAGACGACGGAAGGGACAGAAGATAGAAGAGGATCACATGGGGCAAAAGGGGCAGATGGC
CTGAAAACAACTGCAAAAGCAGCCGGCCGACTAATTCGACCGTCCAGGTGTCAAGTTCAT
AGGGGGTAATACTCCTAGGGTCCAAATCAGACATCTCGTAAAGAGGGGGCGTCCAGATAA
AGAGTTCATTGATAGTGTGCTCTACTAAATGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 892>:

GNMPI82TR gnm_892

CGGCGGGGTAGGAGGGGGTTGGAGTGCATCCCAGGTCCCGGGCGGGCCCACCCTCTCCTG
GTTCTGGTTCCCTCCTCTCTCCCAGCGCTTGAGAGCGCTCCGGTCCTCGGTCCCTCCAGA
GCAACTATCTTTGACCAGGGCGTAGGAAGGGGGCTTGGCCGTGTCCTGGTGGTTAAGTAT
CAAACTATTTCTTAACCTAAATATGCGCTTCTTCCTAACCCACCTCCTCCGGCTCCCCGA
CTTCTGTTAGATCACCAACATCCTAAAAACTACGAGTACCAGCCTCTGCAGCAACTTCGA
TACGGCTTTCTCTTGCGGCAACCGGGCCGTGGCTTCGAGCCGGGTCGCTTCCATCCTGGC

GGTGGGGGTTCTTAGGCTTAGAAGCTCCGTGCTTTTCGGCTGCAAAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 893>:

GNMPI83TR gnm_893

AACTGATGCCGGAGAGACAGACAGTTACGATGCAGGAGAGGCGTGTAACAAATGGAAAAG
GTACATAGGGAGAGGAAGGAACACCGGGGACTAACACGCTTCGTAAAAGAGACCCTCTAG
TAGTCAAGGTCTCAAACATAAATCTGATCAGCAATCGGGTAACCAGGGCAAAAAACAAGT
TAGACCTGAGTGCAATTCCTAGTTTCCGGGCCGCGTTCATGATTGCAACCTCCTAAGTAA
CTGCGTCCGGTACAAAAATTAATAGTACTATCTTGAAAATTCGAGGTATAATTGCTGTTG
GGGTAAAATAGGGCTAGGGAAAACTTCGGAGAAGCTTCGTGCAATAGTGCTTTCATTATA
GGAGATCGCAAGCGTCCTACAGGCGGGGTGGGGCGAAATGGAGAGGAAAAGTTATGGATT
CAGGTATCTTAGCTTCnTTAGTTTGCTTTTAGTGCTATTAGTTCACTATATGCGTCTAGC
CC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 894>:

GNMPI84TR gnm_894

ATCATTCTCAGATCCTCATCCTCGCTCCTGTCAACGTCTTCATATTGCGTTTCTTGATAG
TTCTCATGGGTGCTGTCTCTAAGGTAAATGCATTCTTCTTCAATGTGAGTACCGTAAACC
TTTCCGTAATTGTCGCTCTTGTAATCTTCGTTTTCATTGACGTAATTCTTTTCAGGGCAA
AGGGTTTATATATATCTTCCCTACATGCAAACTTGGCCCTAAAATTCTCGTTAGAGGTCA
GGGCCGCTCTTAAGTCTTTAGTTGCTGCTATTATTTTGATTAAGTCGGTCATTTTCGGCG
TCAAAGCAGCTCTCAACTTCTTCTTCATTTTCTTCGCTGGCTTCGTAAAAGCATCAGGGA
TTCTATTCCTATCTCGGTTCAATGTCGTTCTCTTTGCAGCAACCTCCTATGTCTTCCTAA
ATAACGAATTCGTCGTCGTCAATGCAGCCTCTCGGGGCATCAACTTAATAATCGTAATGC
CCTCAACTACTGTCAACACCTCCCTCTCTATCGTCGCGATCCTCGCGGTCCTGATAAACG
TTATCTTAAAAGCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 895>:

GNMPI85TR gnm_895

CGCTGGGTCATGAGTGCTTGCAGCTGCGTCTGCGGCGGTAGCAACAAAGTGGTTCGCTTC
GCTTCTCTGGGCACTACAGTCCGTACTTTGGGGGTCCTAATTGCCCGAGGCCTAGGCGTG
GGCAGGGGCATCCGCAGCCACGGCCGCGCCTGTGTCTTGCGCAGGGCCGCTAGTATTCGT
CGAGACCCTCATTAAACTAGTACTATCGTCCAAGGCTTCAAACTCGGGGTCGTGGGGGGT
AGTATCTTCAGCATCCGTAACCCCTCGGGGTGCAATAAAAGCCGGGGATTTAATCCAGTT
CACGTTCTAAACACGGGCGTGGGCATAGGGGCCGTCAGCATCATCATTGCTCTCGCGGTG
GGTATAGTCGGGGTCGTAAATACTTCCTTTCGGGGTACTGGTACGTTCTCTATCGTCAAA
GAGGCGGTCTTTATCTTCGAAACTCACCTCCGTACCGTCCGCGGCTCCGAACGTACTCGC
TTCATCTGTCAACGTAGCCCTCGCCTCCAACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 896>:

GNMPI86TR gnm_896

TCCGTAAGTTAACCTCATAGGTGGACATTTGCGCGCGAAAGTACCCCGAGGGGGCTCGCC
AAAGTCGTAAATCTGGCCAGCAACCTGGCATTAAGTAAAGATTACAGAAATAAATGTCTA

GGAATTATAGGGGAAAAAAGTAACGGGGGCCAACGATGCTTATCGAGCGACCGACTGGGC
ATTCAGAGGGCTAGAAAAATGTTGGGCTGCCGCAAACCAAGGAGGGGCTTAAGGGGAAAA
GAGGGTGCCTATTAAAGACGATAAGCATAAACATAAGTAGCTTAAGCAGGAAAGTACCAG
ACTGACAAGCACGTAAGAATCGTAAGCTGTTTCTTCTGAGTATATTCAGAGGCAGCAGAA
GCGTAGGCCAGCGAAAAAGTAGCTGCCTGGGCAGAGCCAGGGTGGGAGGGGCAGGGGGCT
GTACGACAGAGAACTATACTTACGGGCTAAGTAAGCTTAAAAAGCTTCGCTTAAGTAGTA
CGGCAGAAGGCCCTACTGCTGTACTATTCAGAAAATCTTGAAGTATGGTGAGTATTTTAA
AGAATCTTAAGAGGAGTGCTCGGAGTTTTCTTAAAAAGCTTATATCGGGGGGAGATCTTA
CTCGTAGATTAAGCCTGCAGACTCTTAAGAGAGACATAAACTGCGTTCnTACTAGAGTGA
CATGAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 897>:

GNMPI87TR gnm_897

GTATAGCTTCAGCGTCCTGGGTGCGGGCCGGGGCCGAAGTTCGGGGTGAATGGGCCTAGA
AGTCGGTACGGGCATCCTCCTAACCGGCCCCCTCAACCACATCAACTTCCAGTGGATCTT
CGGGGGTGGTACCAGCCTCCGGGTAAATTGCGGGGTCAGCTTTCAAGAGGGCAGCGGTAA
GGTCGTAACCGGTCTTTGGGAGCTTCGGGTTCTATTCTAAATTCTTCCCCGTAACTTTGT
CCTCTAGTTGCTTCCAATCCAAGTTTTCGCTGCTTCAGGCATCCGGTAAATTTTCTCTTT
CGGGTAAAGATTCCTCAGCGCCATCCATACCAGCTCTTGCATCAAAACATACTTCAGATT
CGGGTTAGGAGTCCTCGCCCTCATAGGAGCTGTCCTACTAAGGAGTTCCGTCAGGATTGC
TTTCAGATTAAGAGGTGCAAAAATCGTCAAGTGCTTGGCTAACATCTCCATAGGATTCGT
CCTAATTGTCAACCTATCTGCGGGCATCAACCTCCGATCTTCAAAAAGCGCTAAATTTTT
AAAAGAGCTGAGCTAGGTTCAATCTTTGGTCTAGATCCCTAAGATTGGCTTCATCTCCCA
GGTCATGATTGTACTGGTCTTAATAATTATACT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 898>:

GNMPI88TR gnm_898

CGTAAGAAAAAATACTCGTACTCCTGGCAGGGGCCCTGCGCCTCTCTCGGTGCTTAAAAC
TCTCTCGGTTACTGGCAAAGCGGTCCTAATTCTTTCTGCTAGTAGTCTAGTTGCTATTCG
GGCTCAAGACCAAGAACCCGGCAGCATCCTATTTCGGGGTAATGTTAACTTCGGCTGGAA
TATTATTATCCGGGGAGGTAGGGGCGTCAGGGGTAAAGTTCAAAGACTTCCAGCCAGGGC
TCTTAAAGTGGTCTTGGGGCTTACGGGCAATCGTGCTGGGGGCGTTGGGGTCGGGAAGGT
AAAGGGTCTGGTGGGCTTCGTTCATCATATTACGGGGATTCTTCTAGTTAGCTTCTTTGC
TAGGGTGGTTGCAAATATCTCTATCTTGGGCATTACTTTCGTCGGAAATCTCGTGATGCT
TCGTAAATCCGAAACTAACGGCGAAGAGGTAGTCGGAAAGCGGCTATTCGACTCTAAAAG
AGAGGCTCCGGGGAACTCGGGCAGAGGCTTTTATCGGGGTCTCTGAGTGTCCCGTCCCAA
GGGAGCTCCnGTCGTTATAAGTAGAAATCCCTCTATCCTACTTAAGCTAGTAATCCCAGG
CGTAAATAAAGTTGGTAAGCTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 899>:

GNMPI89TR gnm_899

GACAGACAGGCTCTTAAATCCAAAGTCTCCCTAGTCATCCCTACTTTCACGCTTAAAGGC
CTGGTAATTCGAGTTAGATTGGCCGTGGCTACAGCAGACCTCTCCAGGGGCGGAAGTACT
TTCAGCTTCCCGTTGGTTGCATCTACAGACATCAGCAGCTTCTCTTTTGTGCGTGCGATT
CTTTGTAGCCTTCTGGTAACGGCACCGTTCTACGTCTAGGGGTGTCACAATACTCTAGTC
ATTCGTACCTAGGTCCACGCCAGCTCTCGTACAATTCCAGGCTTCGTGCAAAAAGGATTC

ATCCGTACTCTCATCGCGGTTGCTTTCGGGCTTGTGGTAAACATCGCTAGTCGAAAGATC
TTTTAGGTCCGTCCTACCTCCTACCAGCTTATAGCCGGTAATAGGGTACATAGTGGTATG
TTTAGTGGGGTTCCTACATAGATTTAATACTACGGGTAAACCGGGCCATAAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 900>:

GNMPI90TR gnm_900

CCTTGTGTCCCAACCTGCATTCTCGGCTACTGGCTACAATAACCGGAGTACAGGCTATGG
GGTCAGAAACCTGCTTCTTCCCCTCAATATCTTCTTCTTGAGCGGCTTCTTCTTAGCTGT
CTCTTGCTCCTCCAACTCCGTCAACTTATCTTTCAACGCCGTACCTGCCCTACCTACACT
AGTTTCTGGGCCTCTCCTAGTTCAGCTTCGTGCAATATCTATATCAGCAGCTACCAAAAT
CCTACTTGCAGGCGCGCCTATCCCTACCATAACTTAGGAGTTACTCACGGTCGTTCTTAG
TGTAAATCTCCTCCTCGACTCCAGCATCAAAGTCGTTCGGCCTCTCTTCATCATAGTCTT
CAATCTCAATTCTAATGTCCTCCATCGGGGGTACATCCTAGTGATTGCTTCATTCAACCT
TACTGTCATCCCTCCTAAAGAGGCGTGCTATGGCTTCATCTGGGCCATCAATGCAATCGT
TTTGCTTAGGCCCAATATCAAGCTCGTTTTCAACCTTGCTAACTTTAAGATCATGCCTGC
AGTCATGCTTCTCCTGATCCTCTAAAAATTCTCGCCAATTAAGTTTTTCACTATATTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 901>:

GNMPI91TR gnm_901

TTCCTGGGCCCGCGGCTGCTCGGGGTTTTGCTTTTGCTGGTTCCTAGTAGGCTTCATAAA
GTTCTTTTGAAAAATTAATAACTTCGGAGGTGGTACATACTAAATCCGGGCTTCTAACGT
AAGAGGTAAATGTTCGTAGTTTAACCTCGGGTGCGGAATTCAGGTAACTACGGTCAGCGG
CAGCAAAAACCTCGAAGATGAAATAATACTTCTACTAAGATCTAAATCTAATGTCCGCCA
GCCAGGTAACCTAAGTTTTAGTGCCTATCTCCTCAACTCTCCCGAAGGCGCAATTACAGG
CATACTACGAAGTTGGTCGGCGGCAATCCGGAGAGTCAACGTCCTCCTAAATCTCTTCAA
CGACGTCGGCTTAAGTTCGTCCCTAGTTCGCGCAAGCCTCCTCCAGGCAGGAAGCTTCTG
GTCCGGATCTGCATGGTCCCTCGGTTGCGGGGCAAGAATCCTAAGTGCATCCCTGGGCAG
CGGGTGGTCCCGAAACGTCGCAGGCCCCCTAAACCGGGCCAGATTGTGCAGCTTCAGGAT
ATTTCGAGTTGGACGTCGCTGCTGCAAAGTAAGCTCCCTCGGGCCCCGAAACAGCGTAAC
CGCCGGGTCCCGAACAATAAAGGCCAGGGGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 902>:

GNMPI92TR gnm_902

TTACTGGTGCGATCATCCTGGCTACAGCGGCTACTATACCCCCTACCAGCTCCTCCCTAG
GCTAATCCTCCAACCTCCGATTGGTTAGAGCTATAAACCTAAACCTAGCCGCTCTCAACG
CGGTTCTATATCTAAGAGCTCTCAGGGCATTCCTAATCTTCCTAGTCCTTATCGTTCGGA
GTTGATGCTCCCTAATCTACCTACTACTCTCCACCTCTACTTGGGTGATCGTACTGTCTT
CGGTCCTAGTCGGGGCCTCTATAATCCTAATTGTATTAATATGCTTCAATGCGAGCAAAA
TCGCGCGAATAAATATTGCTCTTATCGTAATATTACTGTTCAGGTTCAACGTGGCTGTAA
TCGAGGTCTCTATCAAGGATCTTCTCAACGTGTGAAAAATCTTCATTTCCATTCCTGTAA
GCTTCATAAGAGGGGTAATCTTCGGCTTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 903>:

GNMPI93TR gnm_903

GCAAAACCTTCGCTTCAGAACTTAACGCGCGGGGGGCTCGGGCTCTGTCGTGGCCTCCAG
CCGGCACCTAAGCATTCGGGTTAATAGTCAAAAGCTTCAACGTACTCGCCTCAAAATCAT
TACTACTAGAAAGATTCTAAATAAAATTCGATTCAATCCTAGTGGTAGAAATATGCTCCC
TAAGATCAGAAAAAGTAAGTTTCCTTTTGCCTGTCCGGTAAAATTCAACCTCAATATTCC
TCCAAAAAGTATTACCTTCCTAACTACTCAAATTAACACCGGTAGTTATAGAAGTCGAGC
CTTCCAATCCAATAGAGTTGCAGTGGGGTTTAAAGAGCAACTCGACCGAAGTAGCCTCCA
AATCTTCAGCTGTAACCTAAAAAATCTTGCCTTGAAACTTCGAAGTAGTCGAGTCCTGGG
AAACGATCATTAAGGTCCGGGCACTACCAAACATATCTTTGTTAGGCTATTTCCTACTCG
TACTCAATCCAGGCTTACTCTAAGAAACACCAGAAATACTTTTCCTAGTACAGAATCCGG
GCTTGGGGTAAGCTTCGTGCAAAGCTTCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 904>:

GNMPI95TR gnm_904

TTGGGAATCGCTTGGTCAATATCCGGGTCTTCGTCTCTAATACTAAGATTCTTGGCTTCG
CCGTCTCCGGCCTACTTGCAGAGGTTCTTATAAACCTCTAAAGTTCGTTTCTCTAGAGGC
TAATAATATTCTCGTTACGGTTATTAATACTCGGGTTACTACTATCCTCCTAGTCCTAGG
CTTTTCTTCTCAGCTTCGTGCAAATACTCAGGCTATCCAACTCCTAGGGGTGATGGTTGG
CCCTACCATAAAAGGCAGCTTCAGATTCATTATCCTAATTCGGGGCTTCTTTCGTTGCAT
TCGGGTAAGTACAAGCTTCTTTAAGGGCGTCTCGTTCATAATTAAAGTAGGCCCTTATGG
AAGTGCTATAGTTAAATTGAAATCTCATAACCTCTCTTCATATCTTATGCTTCTAATACC
TCATACTCAATTTAATGTAGATGCTCCTTCCGTAAATATTTACTTAAAATGCAATAGTAC
ATATGTCTTTAAATCCGCTCATTATGGTTCTTTTGCTTCTTTTTGCTTTGGATGGGCTAC
CGCCCGTATCTAGAGCCGGGGCGCTCTTGGCGTTCCTCTAAGTTCTCTTAAGGTTACGAG
TGTCGTCGGCTGCCATCTCTATGTCGCTGGTAAGCTTCGTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 905>:

GNMPI96TR gnm_905

CTCCCGGGTCTCTTAAATCACAGACGTCTCTACCCCTCCTAGACCTCCCGGCAGCTACGC
CCCCTACAGCTTCCGCCGCGTGGTCGTCGTCTGCGTCAGCGCCGACCTCGGCCCCGTCAA
CTCCAGGGCTGCTAGCATCCTGGCTCTTAAGCTTGCTCTTGCAATAATCGTCAAAGGCAA
GGGGGTCACCAGGGTCGGTAATACCTCCAGGGTCTTATTCTGAAAGGTTCTATGCGCGGG
CACCAGCACCTCGGCAGAAGTGGTCGGCGGCAGGGGACCTAAGAAAGTCCGGGGTACCCG
TAGCAGGGGAGCGTCCCCCTCCAAGCCTGCAACTCGCAAGGAGACTCCAGAGCCTCCTCC
TGCGGCTAAACTGGCCAGGCCCGAGTCGTTGTAAAATGGGAGACGCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 906>:

GNMPJ16TF gnm_906

GTTGTCCAGTGGGGGGGGGGGGCTTTCCACATCCAGCGCGTCTTTCAAAATCGCAGCGGT
ATCGTGGTATTCAAAACCTTTCAGGTCAAACAGGTTGCCCAATACGCGCAACACTTTCCA
CAGCGGACGCGAATCGCCGAAGCCTTGTACCACGCCGTGGAAGGATTGCAGACGGCCTTC
CATATTGATGAAGCTGCCTGAGGTTTCGGTAAAACGGTGCAACCGGCAGCAAAACGTCGA
AAACGTCAAGCACGGTTTCGCTGAAAAACGGCGTAAACGCAATCAGCCTTTTGGCCGGTT
TCAACGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 907>:

GNMPJ71TR gnm_907

GACGAATCGGTGTGGACTGAGATGGCAAAGATCGTGTTGACCCTTAAAAGGTCGCTTAGT
GGCCCGGCCCCTAGCCTACTAACGATATCGGTGGTGCGTGTTAGCTTGTCCGTCCTAACT
ACTAGGTGGCTGGGTCCGGTGCTGTGTAGTACCCCTCGTATGGCCATGTTTACCCGTGGG
TTGGTGGCGTAATATAAATAGTTGATGGTGACCCTCGTTATAGGGACGTTGCCGCTGTCT
AACATTGTGTTGCTAACGTTGACCCTGTTGAATCTGCCGATGACGACGATTTACCCCCTG
CCTGGGCTCCCCCGTGTTACTAGGTCCCCGAGTGTGGCGGCCCCGTTCGCCGTTAGAAAA
TTCGAAACTAGGCGGATCCCGGCCCACCCTACCCTCACGCGACGCTTTATCCCAAAACCC
GAAGACAGGGCGCCCCAAACGACCAAACAACGCCAAAAGCGACGGTAGTCGCCACTACGC
CTCCTACTAACCGATAACCGGCTTAGTAAACCTGACACACTGGTCGATACTGTTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 908>:

GNMPJ73TR gnm_908

GCGTGTGCGAAACGGTGTAGGACCCGGCCGACCACGTTGACGAAATGGCGTTGATTCGTC
GGCGCCGGGCATGTATGGATGCATTGGGTCGACGTATTCCCCAACGGGTAGCCCCGTTGA
AATGGCAACGTGTTAAAGTTATTCGTTGTCCCCGACCACTTGTCAGTACAAGTTGAAGAG
GTGCAGAAACCCCTAGCCCGAAGGTTCCAAACGCGACCCCCTACACCCAAGGTCCCCCAA
CCCACTCGCCCCCAATGGGAGGGTAGCACGTTCGACCATACTTGTACTCTGTGTGTTGCT
GATAGTTCGTGTGACACTAAAACTATTTTCTACCCTTCGTTGTACATGGATGGCCTGCGT
TCCACCGAACGTGGTAACATTAAAGCGACCCGCATTGTCCTTACAGACGAAAATGCCTTG
TTGCCCTCGTGTGGCAAAAATTAAGGTCGGGCAATGGTGGAACATGGGACGTCGTTCGTT
CTAATCGTCCTTTGGACGTCTTGTGAAGTCCTGGTGGGTAAATAGCTTGGGTGTATATAA
GAAACTTAATGCCCGACTGGGTGCCTTTCGTGTGTGGCTGCGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 909>:

GNMPJ75TR gnm_909

CCTGGGTAAAGTAAACCCCCCTGGTAAAGTAAAAATTTTGAACAACTGGGGGCCCCTCGA
ACGGGCGCCCGGTAGCGATTCATCCCTGTACGGAAGAATTATATCACTACTGGTGTCGAG
CTGCCCTATGGCTTCGCCTGGGACGGGAAGGTGCGGGATTAATCTGTCACGGTTGTTAAA
TCCAAATCGCCATAAACTGGCAAAGTTCCAACTAACACACCTGGCAACGATCGAACTAGC
TAGCAAGTCCCCACTCTCCGAAGCCTCCTAAACGACAGAGCTAAGTTCTATGAGTAACCA
GCACGGGCCAGTCCTATGTGCCATTGTGTCCCTATATTTTATTCACTAATGCTTCGGCTC
TGAATGATCTCCCAGCGTGGCCAAATTGTAAGGGAAGCTCTACTCCTAGGTGAGCCCTGT
GTCCAGACGTCCCTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 910>:

GNMPJ76TR gnm_910

TTGCGCTAGGACGCTCGTTCGACATAGTTATGTTAAAAACGTGGTTGTGTTTGTATTGCG
CGTGATAATGGTGATGCACCCGTTGTGCACGTGCCTAAACGTTGCTCGAAGTTTCGTTCG
TTACCTTTTCACGTCCCGATTGGTTGATGTCCTGGATACTCGTATGATGGGACAATCGAC
TGTTTAATGGCTCACTTATACTCGACTTCTCTTGGTACTGTGCACTAGTTAAAGTGCTAA

ACTCCTGAGCCTAAAATTTCGTACATTGTTTTGTTCACCCTAGTAGGCTTTGGAGGGCAA
AGGTGACGAGTAGTGAAGTGGGCATGTCTAACACGGTGTAGATGGCTAGGTAGGTAAAAA
CACCTATTATTTGTTGCTAGTTCCCTTAATTTAAATACCCGGATGTAACTAGTAGGTAGG
GTAGGTAAACTAGTAGTTATATTAATGTTTACACTGGGCCCGTTCCGGCTGGTGTAAGTT
AGTTCCGTACTTGTGATAATACAAACACTGTTTATATTAATACGGGTAGGACAAATGTAG
TGATGATTTACGTTGTGTTCACCTTCGCCCCCTTGCTTATACCTTAACTACACCCATT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 911>:

GNMPJ77TR gnm_911

TAGGCGTGGCTCCTCGTGGTGGGTCGGCAAATAAGGCCGAGTTGTTTGCCTGCCCCGGCT
GCACTCCCTCCGTTAAATTAATTGCCGCAGGTAACCCTCCCCCCGTCACTTAAGTCGCCG
CCACCGTTGGCCGCAGTAACACTCCCACCGTTCGCAACGGCAATGGCGGACCTCCCGCTC
CGACCGCGGCCGATAACTACTGCTTTCCTACTGGCACCCCGAACATGGCGGAATTAAAGT
TAACGTTTGCCCAAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 912>:

GNMPJ79TR gnm_912

TTTCAGAACGGGTGCTATTCATACCGTGCCAGGTTTCTTGCTCTCCCAAGCATCAGGTCC
CGAGGGTGCATCCGGTCCCTAGGTTTCATAACCGCCAGGGGTAACCGCGGCGAGACCCGC
GACCACCAGGTCGAAAACCGCACGGAGACCCGCCGCAAACAAAGCTCGCCAATTCCTCAG
CCGAAGCATCCCTAAAGTGGCTCCGGTTCTTTAGGGTACGCTGGGTTTCAGGGTCATCAT
GGTCGTGGTTCTCTTCGCGAGTAGTACTCGGGGCCTAATCGGCCCAATCCTCCATCCGGT
TCCATCCGTCCGAGACGCCTACATGCTTCTCTTCAGCACTACTAAGAAAGTCCCGCGCTC
TCTGGCGCTCCTAAAGCGCCTCATAGAATTCTTCAAACACAACTTCCAGAACCTAAAGGT
CCCCCTGGTCCCCGCGGCCCTCTCCCTAGAAGTCAGCATCCTCACCTACGTGGCTCGGGT
CTTCTCGTTCGAAGTAGCGCGCTTGTTCTGCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 913>:

GNMPJ80TR gnm_913

CGTCGTGCAAACTCCTGGTTGGCCGCCGGAAATTTAGGGTAAGTCTCCGGGCCCTAACTG
CCGCCGCTACTGTCTCTTATGTCTCTAGTTCTACCGCTCATACCAAAGAGGCCTCCCATT
ATGCTATTACTGCTGGCGGCCATAACTTGGGAGTCTCGGTCTCTGCCAACTGCGTTTAAA
GCGGTACAGACCTAACCAAAGTCCATGCTGGCGTCCGAAAATCTGTCGCTCTTGGCCTGC
AACTAGTCTCTCTGGTGACTCCTTCTGTCTCTCCCGTGGCAAGTCATACTCTCCATCTAA
GTATTAAGAGGGTTCCTAGCTACGTCTCGGGTGGTCTTCTTACTAAAAGCTCTCTCAGGG
GTCCCGTCAGCCCGACCTCTCTGAGTGCGGTCTTCACGGGCCGTAACTCCGAATCTCGCG
GCCGATTCAGAGCATTTCAATGCGGGGCTACCTTCGTGCAAATAGGCCTTCCAG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 914>:

GNMPL04TF gnm_914

TGAGATAATTCCCGCCTTGGATAGCATGGAAAACATGACCGAAGAGCTGCAACACTGCTT
TGAAGCACCTTTTTACACGCTCGGCCCGCTCGTTACCGACATCGCACCCGGCTACGACCA
CATCACCTCGGGCATAGGCGCGGCCAATATCGGCTGGTACGGCACGGCGATGCTTTGTTA

CGTTACCCCGAAAGAGCATTTGGGGCTGCCCGACAAAGAAGACGTGCGCACCGGCATCAT
CACCTACAAACTCGCCGCCCACGCCGCCGATCTCGCCAAAGGCTGGCCGGGCGCACAATT
ACGTGACAACGCCCTGAGCAAAGCGCGTTTCGAGTTCCGCTGGCGCGACCAATTTCGCTT
AAGCCTCGACCCTGAACGTGCCGAGAGCTTCCACGACGATACTCTGCCTGGCCGAAGGCG
CGAAAATCGCCCACTTCTGCTCGATGTGCGGCCCCAAATTCTGCTCGATGAAAATCACGC
AGGAAGTGCGCGACTACGCCGACAAGCAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 915>:

GNMPL55TF gnm_915

TCCTACCTTTTCTTATATGCTCCAGTGCAAAAGTAAAAATACCACTTGGGATATGGAGAG
GGTTTAAACTTTGTATTGGGTTGGCACGACGACCATCAAAACCTGCCCGTCATCGCCAAA
ATCGCCGAAGATTGCGGCATCGCCGCCCTTGCCGTCCACGGACGCACGCGTACGCAAATG
TACAAAGGCGAAGCGCGTTACGAACTCATCGCCGAAACCAAATGCCGTCTGAACATCCCG
GTCTGGGTCAACGGCGACATTACTTCGCCGCAAAAAGCCCAAGCCGTCCTCAAACAAACC
GCCGCCGACGGCATTATGATAGGGCGCGGCGCGCAAGGCAAGCCGTGGTTCTTCCGCGAT
TTGAAACATTATGCCGAACACGGTGTTTTGCCGCCTGCCTTGAGTTTGGCAGAATGCGCC
GCCGCTATTTTGAACCACATCCGCGCCATACAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 916>:

GNMPL69TRD gnm_916

AAGTTGGCAACGTCGTTTGCTCGTACTTAGCCCGACCGTTTGCTTGTCGTGGCCGAGGGT
GGCAATGGCTAACCTTGTACACCTGAACGCCCCCCTCCGCCTGCGAAACGTTGCTAGGCA
AGGCGTAACAAAAATGGTGGATAATAGTAGATAGTCCACGGTGGTAAATTACATTTAGTG
ACAACACAGCGGACCAAACCCAAATTAGCATAGTGCCGTTCTGTTCCAGTCTAAAGAGAA
TGACCTCTCAAGGCGTCGAAGTATTAAGCGAACTGGCCTTGCATCACCCGCATCGCTCGT
GGTCCTGCTGTTCCGCTTCGACCCAAACCCAACTTATCACACCCTATGTCCATTTTCCGC
CCTCTAAACGTTGCTCGAAACAAGTGGTCCAACACACCGCCCATAGCACCGGGAAGTACA
ATAGATAAAACGTTGCTCGAAACACCCCTAGATGGGACCCTCCACTTGAAATGGACCACC
CCCGTGCCCTAATTGTCCCTAACGTATGT

gnm_917

GGCTAGGGAGAGGGCGGCAAACCGTAGGTTTGCTTGAGCGGTATTTTCAACATACAGGCT
GCTTTTCAATTCGTTGAAACCGCACTTTAGCTTCGCAGAAACCCCCCCGCTTCCTTCGGAA
GCTCCGTTTTCAGACGACTCCCTACTTTTTCCCCGCCGCAACGGGTTCTGCCTTTTTAAA
CGCCGCCTTCAACTGCTCCGCCGCTTGATCAAACTGCGTCCGATGTTGCCTkTCATCAGG
CGCAGACCGCCGTCGGGGGAGAACGGGTTGTCAGCTTTGCGCAGGATGTCGTCGTTGCCG
CTGGTTTCGGGGGCTTCGCGCCATTCGAGTTTCCCGTCGTTAAGGATGGCGGCGGTACGG
TCGATGATGAAAATCCAATCGGGGTTTTTCTCTTTGATGTATTCGAAGGAAACAGGCTGC
CCGTGCCCCTGCGTTGCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 918>:

GNMPO23TF gnm_918

ACTTCATGTTACGTTCAAAAATTTAATGCACTCAATATATTTTTTTAAGGAGAAGCAGGT
GAGTCAAACCGATACGCAACGGGACGGACGATTTTTACGCACAGTCGAATGGCTGGGCAA
TATGTTGCCGCATCCGGTTACGCTTTTTATTATTTTCATTGTGTTATTGCTGATTGCCTC
TGCCGTCGGTGCGTATTTCGGACTATCCGTCCCCGATCCGCGCCCTGTTGGTGCGAAAGG
ACGTGCCGATGGGCGGCGCATGAAGCGGTGTGCGCCTTCGACGCCGCTGTCGCTCCATTC
GAGGGACTGTTCGGGCGGTGCGGCGAACATCATAAACAGGCGGGCGGTGTCCGCGCCGTA
GGCGTTAATCAGTTCTTGCGGATCGACGCCGTTGTTTTTGGACTTGGACATTTTTTCCGT
GCCGCTGATGACGACGGGCAGCCCGTCGGCTTTGAAGACGGCGGAAATGGGGCGGCCTTT
GTCGTCGAACGTCAGCTCGACATCCGGGGGGTTGATCCAATCTTTGCCGCCTTTGTCG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 919>:

gnm_919

GCGGGTTCGGAAATTGTGCTGAACCGGATTATCTGCTGGGAATTGCTTTGCCTGTTTGGA
GCGTGGCGTATTTTCTGGCGGTTGTCCTGACGGTTTGGTGGGCGTGGGCAAGGGCTAAAT
AAATCAATGCCGTCTGAAAGGTTCAGACGGCATTTTATTGTATGTCTGCTGTGCTGCGTA
TCAGTCCAGATTCAATACGGCGGAAGTGTAAACGTCTTGCACGTCGTCCAAGTCTTCCAG
CGCGTCAATCAGTTTTTGCATTTTGACGGCATCGTCGCCGGAGAGTTCGGTTTCGTTTTG
GGCGCGCATCGTAACGTCGCCGTCAACGGATTTGTAACCTGCCGCCTCCAAAGCGGATTT
TACGCCCGCCCAATCGTTTGGCGCGGTAATGACTTCGATGGAACCGTCGTCGTTGGTAAC
CACGTCTTCCGCACCGGCTTCCAAAGCCGCTTCCATCAGCGCGTCTTCGTCAACGCCGGG
TTCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 920>:

GNMPP87TFB gnm_920

TATTCCTGACGATTCAGGTATTCCTGACGATTCAGGTATTCCTGACGATTCAGGTATTCC
TGACGATTCAGGTATTCCTGACGATTCAGGTATTCCTGACGATTCAGGTATTCCTGACG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 921>:

GNMPS93TF gnm_921

CGAAATTTCATGCCTTCGGCTTCTTTGGTGAGCTTGACGCAGAATACCATGCGTGCCAAA
ACGGATTCCTTTGCTGTGTTCAAAAATAACGGGGTGATTTTAACCGATTAAGGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 922>:

GNMPS95TRB gnm_922

CACCTCCTCCACCCGAAGAAAAAAATTGATCCGGGTGGAATGGGGTCGGCGGCTGGCCCC
GTTAATAGTAGTCCCGAATCGTCTGTGGGTACTGGTGCGCCCGTTGTACCGGGTCCCACG
GTGTAGGTGGGTGGCAAGGTGGCTAATGAGGCCGTTCTAGGTGGTACTGGCCCGGTGCCC
ACTGTTCCCTTGATTACCACTAATTAGGTATTGACGGGTCGGTCGACTGGTACACCGCCC
CCTGGCCTGTCGGCGCCTGTTGGTGCCATGCTGACGACCCTTACTTCCGAAGCGACCGCG
GTGGTGACCTAGGATAAGTCGAATACTGGGTGTGCTAATGTTATGTCGTCGGCTCGTACC
TTGACGGGTACCGCCCTTATGTCGTCGCCTGGCATGGTGATGGTGTCGTTGGCCCCGGAT

GCGACGGATAAACCTGCTAATATTCATGGGACCGCCGTTGTTGGTCCCGCCCACGCCGTT
GTTACTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 923>:

GNMPU24TR gnm_923

GGATGGATAAAGGCAGCCGGCATTTCTACGCGTCTGTTTTAATACATTGCGGGATTTGCT
GCCTGACTGCCTTAGCCCTTGCTTTGCGCGAAACAAAGACCCGTAAACCGTCTATATTCA
AACGGTTTACGGGTCTTTTTTCTCTCTTGCCGTTTTCTTCAGTTTGCCGATCCGACCACG
CCACCGCCGATTCCTTCAAACGGTTTCCCGCGTTCTTCCCACTTAACGAACATTAAGTTC
TGCTACTGCTTTCAGCCCAATGTGGAAACTTGCGCCCTGTCCGAATGTTGCTGCGCGCTT
TGCTGAACTTCCTGCCCTTGGCTTTCTTCTTTGTATGGGTTAAACAGCAAGCCGTTTTTT
ACATAGTCCTTGCACATCAAATCCGTCACTTCTTTCACTGCCGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 924>:

GNMPU24TF gnm_924

ACGCCGTATATTGACTGCATTAGGCTTGATGGCGGTAACCTATTCAGGGGTGGATAGATT
GGTAGCCCATTTTCAGCAGGCGATAACCAATAGCATAACGGGCGCGCCTCAAGCGATGTT
GCAGCTTTTTTATATAAGCGGCGGTGGAATCGTTCTTAATATCCTGTTTGGCGCGATCGC
CTTTATTCTGTCATTCATACACCTGACAAAACTAGCAACCTCAATCGGGAAGAAAAAATA
AATGGTAAAGATATGTTTGATAACCGGCACGCCCGGTTCAGGGAAAACATTATGAATGGT
TTCCATGATGGCGAATGATGAAATGTTTAAGCCTGATGAAAACGGCATACGCCGTAAAGT
ATTTACGAACATAAAAGGCTTGAGAATACCGCACACCTACATACAAACGGACGCAGAAAA
GCTGCCGATATCGACAGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 925>:

GNMPV25TF gnm_925

TTACAACACGGTTTCTTTAGATTTTACGTTCTAGACACTAGTATGAATCCCTGCACCGCG
CAACATCGCATCTGCTAGATCCGCCGCCTATCATACCACTAGCGGTTGCAGCAATCGTAC
TTCCTGTTGAATCACATTGCCCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 926>:

GNMPV30TF gnm_926

GCTTCGGCTTTTTGGCGAGCGGTGTTGGCATCGCCGTTTTTTAAGATGCTCAATACTTGA
GTGGCGTTTTGACGGATTTGGCTTACCGCGTCGGCAGGGGCGGCAAATGCCATGCCGATG
CTCAAAATACCGATGCCCAATGCGCTGATGAGGGAGGATTTTTTCATGATTAAGTGTCCT
AGTTTGAATATGATGGCATACGTTTATTCGGCGGCTTTTTCCGCATTCCTTTGCGCTTGC
GCGCCGCCTCGGCCTTTTTGGGGTAAGCGTCGGGTGTCCAAATACCGTCCTCTTTGAGCC
GCAGCTCGGTTTGCGTACCATCCATGCGGGATAGCATAAACCGCCGCCCCATCAGAAAAA
ACACCGCATCGATACCGTGCTCGTCGTCGATCACATGCACACGCAGGCCAGGTTGCCACA
ATACGCCGTCGCGGGTTTTATGGCCGCCCACGGTTATCGTGAGTGTAAATCCCTCCAGCC
GCCAGTCGGCCAGCTGCTTTTTAGCCTGCTTTTGCAATGCGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 927>:

GNMPV42TF gnm_927

GTCGTAAAATAGCCCTCGAAAATCAAATGCCGTCTGAACATTTCCCGTTTCAGACGGCAT
TTTTCAAACCGGACTGACGCATCGGGAGCAACCGCCCGCACCGGATAAATTTCTGCCGCA
GACAGTTTCAGACGGCATTTGCCGCCTGTACAATATAGTGGATTAACAAAAATTAGGACA
AGGCGGCGAGCCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCAC
CTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAGCGCCGTCCCTCGCAATATCCGTC
CCGCCCGCTGCGGCGGCGGATACGTCTGCCTGCGCCAAAACGGGCGCGTCGTTGATGCCG
TCGCCTATCATCAGCACTTTTTTCCCTTCTTTTTGCAAGGCTTTGACGTATTCCAGTTTG
TCCTCGGGCATGGCTTGGGCGCGGTAATGCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 928>:

GNMPV63TRC gnm_928

GGGTAGTGAGGCCCAAAAAAAGTTTTGTTCCATTTTGAATAGGCTGCCCTTGTACTTGGT
AAGGCTCCGACGATGAAAGATGACACCCCGGTAGGCTAGCTCGTACGGTAGATCATTGGT
GGCACGGAAGCTGGCCTGACCCCGGGCTATGGCGTACACTAGGTCTTGGATCGGATGGTG
GATCGGTCGTACTGCGAGCCGGCCGTTCGGCCGGACCCGATTGTGTAATAGATCCATGGT
AAAAAACCTGATGAGGCCCTTTTTGAGGAATAAGTTGCTCCGAAAATATGTTCGGTTGAT
GAACATTGTAACTAAAGTTGTGCGAAGGAAGATGGTAGTGCTGCTACTAGTGACATGTGT
GCGAAAGTTACTGAAAGTACTTCGTTCCATCATTATGGCGCGCATAGTGATGACTTCAAG
CCTTAAATTATCTGTGAATATCCCGTAACGAAAAATAACATACCGTTAAGTTAAGAAGTG
TGCGAAAAATCGCCTAATCCTCCTCCTCGGATCCTCCGGCTCGTCCTGATTAATTGCTTC
GATGAGAACCCCATCCATATTAATAATCGGTTGTATGAATTCCCGACTAATAATGCAGTG
ATTATCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 929>:

GNMPW59TF gnm_929

CCAACAGGTGCAAAATGGTATTGGTGCTGCCGCCCATCGCAATATCCATCGTCATAGCGT
TTTCAAACGCTTTTTTGGTGGCAATGCTGCGCGGTAACACGGTTTCATCGTTTTGCTCGT
AATAGCGTTTGGTGATTTCGACAATCATACGGCCGGCTTCGAGGAACAATTCTTTGCGGC
CGGCGTGGGTCGCCAAATACGAACCGTTGCCGGGCAGGGAAAGGCCGAGTGCTTCGGTCA
GGCAGTTCATCGAGTTTGCCGTAAACATACCCGAGCGTGGTCGGCACGCTTGCCATGTTT
CTTATCGGCGGCGTACTGGTCGCCCACAACCTCGGCCTTCTGCACGATTTCCTGCACGCG
CAACACTGGGACGCTGGCTGGGCGGAGTACTTCGCCAACTTCGTTGTCGGGCTGCTTTCC
GGTTCGATTGCCTGCGCTTCCGCCTTGCCGCTGATGAATCGTTTCGGCAGGCATTGATTC
CTTTTTCACATACCGATGCCGTTTGAAAGATGTTCAGACGGTATCTTCCGAACCAGACAG
ATG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 930>:

GNMPW71TR gnm_930

CTACTAGATGAAAACATAGAGGTAGAATTTCATGACATCAGCATGGGCAATTATATTTTA
CACATGACCCTAAAAGCACAGGCAACAAAAGCAAAAATAGACA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 931>:

GNMPZ21TR gnm_931

GCTCGGTACACCAGGAATGGTCAGCAACTTCACAGAACTCCTAGTGCCACCTTCCTTTTT
GAACTTTTATGACTTCTGGACAGCGTCATGATGATTGTCAAGTGTCATGACACCAGTGGA
AGTGTCTTTTTTTCACATCCCCTTTAACCAATGCCACTGCGCTGCCTGCGATAATCTGCG
AGTAGGCTATGACTTTTTGGCGTTCTTGGGGTGACAGTTTGCCTACATCGCGTCCGTCCA
ACAGGGTTTCTCCCACCATCTCGCCGACTGCCGCGCCGATTGCGCCGTCTCGACATTTGC
CTTTATTTGCTACCGCCGATGCACAGCCTGCTACGGCATGCGCTATCTTGTGGGCAATGT
AGTCTTCGCTGAGATTAAGTTTGATTTTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 932>:

GNMPZ44TR gnm_932

ATCGCCCGTCTCAATAACCAATAAGCCTTTGCTCTCGATCCGACCACCATTGGAGATAAA
TGTGCCTGCCGCTCCTTTTTCGGTGGTTTCGATGGAGAGATAAGTCGGTGAAGCTTCGGT
GCCGTCGGCAGTGGAGGCGATGCGGCCGCTGTTTTCAATGCGGACTGACGAAGTCACAAG
CAATTGCTTGGCCGCTTCGAGTGTGACGGCATTTTTGACGCCTACGCCTTTTTCATTGGC
AGTCAGTGTGATGCTGTCGGCGTACATAGCGCCCAGTGCGGCAGTATCAAAGGCAATAGT
CGGTTTCGTACCCGCTGCAGTACCTGCACTGATTTCGCCGCTGGCGTAATCTACTTTCTG
AGGACCGGTAGAAACCGCCAGGTTTTTACCCTGTAATTTCCCCTGCAGAGCAACTGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 933>:

GNMQA27TRB gnm_933

CAACTCTGCGGATGGGGCAGGTAACTATGTTGCCCCTATTTAAAAATTTGTTGTGTTGTG
TGAGCAGCTATTGGCAACGGCGCCTGTGTTTCGCTTTACTAGCCTGGCCATTAATAACTT
TGCTTTTACCCTCCCTAGTAGGCTGGACCGTGCCCTGCGTGCACGGCCTAAACATAGGCC
GCGTGTGTTGTTGGTGCCGTTTGCGGCTCGTACATTGAGCCCGTGTGTGTCGCAATCGTC
GAGGAAACAGTTCCTGATAACGTTGCCCCGAACTATGAAGTGTGGCGTGGCGGTAATGTT
CCTTGTACTAAAACAGTCGTCGTGGAAAGAGTGGGGGACGCGTGGCCTCCTGTGTAGGCC
GAGGAAACTGGGTAGGATCCCCCCGTTGACGTCGCTGACTAGGAAATCGTCCCGGTGGCA
GAGTGTGTTGTTGGAGAGCGTGTTGATGAGGCGCTTGACAAGATTGTTTGAAATGGCGGC
ACTGAAGAGGATGGGGCAGTCGTTCGCTGGGACGTCGTGGTCGTTGAGCTGGTGTAAAGC
CTGGTGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 934>:

GNMQA92TF gnm_934

TTTCGATGCTGCCTTCAAACGCGCCGATAACACGGCTGGCGAGGAAGGCGGTGCAGAGGT
TGACGGCGAGCCACATCCAGCGGTTTTTCACCGAATCCCACACGGGGGCGAACAGGTCTT
CCTCTTCCTGCAAACCCGCCATATTCAGCATATCCGCTTCCGATTCTTCGCGGATCACGT
CCACCAGCTCCTCCCGGTAAAGTCGCCGTATTCGGTCTTTTGAAGCGAAATGGTAAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 935>:

GNMQB81TF gnm_935

TATTTTATCAGAATGCCGATGCTTGTTCTGTTTCAAATTAATTTCTTTTCAAATAAATTA
CTTATTCGGATTTGCCGGGGCTTTCGGATAAATTCCTTGCCAAGGTGCGGCATTGCCTGC
ATAATTCGCTTTCTTTGCCGGGATAGCTCAGTTGGTAGAGCACCTGACTTGTAATCAATC
AACAATTCCGGCGTTTCCACGTCATGTCCGGCAATATGGGTGGCAAAGTTGCCGCCGCTG
TAGGAGATGAAGCGGTCGCGGTAAAGTTCGACGGCGCGAGTAACGTGCGGCCCCTGCCCG
AATACGACATCCGCGCCGGAATCGACGGCAAGCCGCGCAAACTCAACGACGTTGCCCCTG
TTTTCCCCATAGAAGATTTCGGTATCGAACGGCAGGTGTTCCGCCTGTTTCCCTTCCGCG
CCGCCGTGGAACATCAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 936>:

gnm_936

CGAAAATGAAACGGGTAAAACACAAATAAGGCCTGTATGCAGGCAAGGTTTATTTGTGTT
TGACCCGGAAACGGGTTCAGACGGCACGAACCGGGATGCCGTGCCGTCTGAAAGGGGTTT
ATCGGGTGGCGCGGTAATCTGCGTCGGCTTTTTCAAAGCGTTCTTGGGTTTCGCGCGAAG
GTTCTTTGTTGAACAGGGAAACCAACACGGCAACGATCAAGCAAACAATAAAGCCCGGCA
CGATTTCGTACATCGTCAACAAGCCGCTTTCTCCTGCCGCTTGAGCCGGTTTTTTCACCC
ATTCCGCCCATACGACTACGGTTAACGCACCTGCAACCATACCCGACAACGCGCCGTAGG
CAGTGATGCGTTTCCACAATACGGACAGAATCACAATCGGGCCGAATGCCGCGCCGAAAC
CTGCCCACGCGTAAGACACCAGTCCCAATACTTTGCTGTTCGGATCGGAAGCaTCAGGAT
GGAAATCACGGCAATCGCCAAGACCATCAGGCGGCCGACCCATACCAATTCCGACTGATG
CGCGTTAATACGCAAAAAGTCTTTGTAGAAGTCTTCGGTAATCGCGCTGGAGCAAACCAA
AA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 937>:

gnm_937

GCTTGCCGCCTATTTTTCTACGCGCAATTTCGACGATTATATTTTGGGCGGGCGCAGCCT
AGGCCCGTTTGTTACCGCGATGTCGGCAGGCGCGTCCGATATGTCCGGCTGGCTTTTGAT
GGGTCTGCCGGGCGCGATTTATTTGAGCGGTTTGAATGAGGCTTGGATTGCCATCGGCCT
CTTGGTCGGCGCGTATTTCAACTGGCTTTTGGTGGCGGGCCGTCTGCGCGTACATACCGA
ATACGCCAACAACGCGCTGACGCTGCCGGATTATTTCTTCCACCGCTTTGGCGCGGGCGG
ACACTTGATGAAAGTGGTTTCCGCACTGATTATCCTGTTTTTCTTCACGATTTATTGCGC
CTCGGGCATTGTGGCGGGCGCAACCCTGTTCCAAAGCCTGTTTGAAGGTATGACTTACAA
TCAGGCAATGTGGCTGGGCGCGGGCGCGACCATCGCCTATACCTTCTTGGGCGGCTTTTT
GGCGGTAAGCTGGACGGATACGCTGCAGGCTTCnTtGATGATTTTCGCGCTGATTTTAAC
GCCTGTGATGGTCTATCTGGGCTTGGGCGGCGCGGAACAGATGTCTGCCGCGA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 938>:

GNMQE49TF gnm_938

CCTAAGGCACATGTCATTATCCCCATTCGATAGGTGAGGACACTGAGGTTCAGGGAGGGG
AGACATCTTGCTCCTGGACACCTCAGCTGGGGAGGAAGGCAGTGGCGATCATTCTTAGGA
ATCTCCGACCGCCATGGGCTCCTGCTCTGTGCACCCTCAGGAGCTTACGGTCTGGTTACA
AAAATGCCATCTGCCTATGCTGAATTCTAGGCTTATGAAGATCCAAGACATATTCCTGAA
AATCCATATTTTCATGCATTGTACTATCTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 939>:

GNMQE84TF gnm_939

GAACATACCAATTCGAAAACATCAATAACTCAAAAAAGATTTCTTTTTATGATCAAGAAT
ATACCGAAGGTTACCTAGTTGGCTTCGCCCGAGGTTTAGGGGTTGCAAAAAGAAATGGGG
AGCAGCTGTTACAACAGCCAGTTTTGCGCCGTATTTACGGCAGGTGTTAATAAATTTCAT
GATATTTTCCTTCAAAAAGTGTTTGGCGGTAATGGATGGAGCGTTTTTCAGACGACCGCC
GAACATCCGAAAATCAGTCTTTCAAAAATCCGAATACGACAAATTCGTATTGGTTGCCGA
TTTCTTCCAAACCTGCGTTAATCGCTTCTTCGAAGTCGTAGAAATAATCGGCATTGGTGA
TTAATTTGGTATGTCCGATGTCGCCCGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 940>:

GNMQF69TR gnm_940

CAGCATCATCGACAATAATGCTACAAGTGTGCAGGGTTTCGTTTTGTGCGGCGGTTTGGG
GCATTGCATTCATGGTCATTTTCCTGATTCTGTCGTGTGTTGCCGAATCGGGCGACCTGT
GTGAAGGTAACAAAAAAGCCGCCCCGTTTTCGAGCGGCCTGTTTTGCGTATGGGATGGAT
TTCAAGCAAGCGCAAAAAAGTACCGCACGTCTGTGTGGTACCAATAGCAATAAGCGGTTG
TAAATTTTTTGCCTTGCATGATGAAATGCCGTCTGAAGATAAAAATATTGGGGAGATTCT
AAATCAAAACGCTGCCGCGCCTCAAGCATTTTATCGAAATTTTTTTGATTTTTCATCTAT
CCGATTGAAAATATTTCGGTTTATTTTTACCGCTGCCCGATATTGTCGGCAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 941>:

GNMQH20TR gnm_941

CGGATTCCCGCCTGCGCGGGAATGACGAnCTCTTCCGCATCTGATTTTGGACCTCTTGAC
GCGATTTGCTGCATTTTGAAGTGTCCACCAAGATAATCATAGTAAAAAAATCGTCCATCA
GCTGTTGGCTGATGTTGAGAATATTGATTTGGTTTTCCGCCAAAATTTTGGAAACATCGT
ACACGATGCCGACGCGGTCTTTACCGATGACGGTGATGACTGAATTGTTCACAGGCTTAC
TCCTTGCAGATATCCGTTAAAGTCCGAAATTATACCACCGTTGGATTTTGAAGAAATATT
GTCAACAATATATACATACAAAATGCCGTCTGAAACTATTTCAGACAGCATCAAGATTCA
GGGTTCGATTAAATAACCATCCTTATCCCACTGGGTTTTCCTGACCAACTTGTCATCCTG
ATAAACAGCTTCGCTCTTTTTAGAACCATCTTCATACCACTCCAAAACCACCCCGTTGCG
TTGATGGTGGCGGATAGACAGTTCCGAGAGTAATCGGCCGCTTTCATCCCAAGTCAGAAT
TTTGGCAGGCTCATCGTTGACCATAACCATTTCCGTCTTGATACTGCCGTCGGCATACCA
TTGCTTTCATACGCCGTTTGCCTTATTTTGCTTAAACTGGATTTCGCTTTCCTTGCCGCC
GTTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 942>:

GNMQL93TF gnm_942

CCTACAAACCCGGCCGCCATTCACTCGCAGACTTGGCTAAGTCGGATATTGAAAATCGAC
AGCCGAATTTCACAGGGCCGCGTGGGACGAAGGTTTGAAAGGCTATGCCCGCCTGCGCTT
CATCGTCAACGCCTTCACGCGGATGCGCGCCCTGACCTTTAAAAACGAACTGGATTTCGA
CTACAAATCCACAGTGAAGAAAAATGCCGCCTTACCTGCGCCCGTGGTTCAAAGCCCCCG
ACCGGCAAAACCTCGACCGCACCATCATCTTCGGACACTGGTCCTCGCTGGGCTACACGA

ATGCCGACAACGTCATCTCGCTGGACACCGGCGCGCGGCAAATGCTTCCGAAACAGCTGT
TAAAAATAATGCATTAGATATTATTTGGGATATTGGCAACCTCGTATGGGACGGCGGTAA
ATGGATTTACGCCAAATCTATTGGCGATAAGCAGATGGCTCGAGAAGCGGCGATTGATTT
TGGTGTGGATGCCGCCGCAGCTGCCGTTCCCTTTGTTCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 943>:

gnm_943

AGCGGGAAGGTTTAAATAGTTAGGACGCCGGTCCAGAAGTAGTTACTACCCAAAGAAAGT
GCAACAGTCTATCGGCTGAGCTGCTTCGTGTGGAAGACGCAATGGGGTCTAAACTCACAA
TTGAAGTCGTGGACGTTGGCCCATTGGTACGGCAGGGGAGTGCCTCGCAGGTCGACGAAG
GCGTACCGCAAAGCGCGTCGGAGGCACTAGAAGCGTGAACGCCGATACGAGCAGTGACAA
AGTGGGCGAAAAGTTTGTCTGTTGAAAGTTTAAGGCCCTTCGTGTAATGCCTACTGGTGC
AkGGCGAGCTGGTTTTCAAGGTGAGGTAGAAACGTGCAGCTGACGGGAAATAGGCCAACA
CCTTCGCATCCGACCTAAACGTGACGCGGGGATGGAGAAGGCCAGGCCGGTAAGTCGCCG
GAACAGTCCGCCCAAGTTGGCAGGCGGAAGATCCAGGTAAACTTGGGCTCCTCCAATATT
GAGAAGCGATGATGAGCGCTCATGGATATGAAGTAATTGACATTATGTCCTTAGGAAAAG
TTATCAAGTCCTAGCCCGAACTGAATTGCATTGTArATTGATATAGGCGGGTAGGACGAG
AACCTCAAGGTGTCCGAGAGAATCTAGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 944>:

GNMQM32TR gnm_944

CTATCCGAACCGCTGCCGCCCTCCAAGTAATCATTACCGGCACCGCCGATCAGAGTGTCG
TTACCGTCTTCGCCGGCTGATGTGTACCAAACCGTCTTTGCCCGGCATCACGCTGACAAT
CGCGCCGACATTGTTATCGAGGATTTTCACCACAGTGCCTTCGTACACTTTGCCCACTTC
CACTTCGGCAGTAATCTGCTCGATGCGTTTTTTCGCCGCATCGCCGGCTTCTTGAGTGGT
TGCGGCAATGGTAATCGTACCGTCTTCGGCAATATTGATTTCCGTACCGGTTTCAGCGGT
AATCGAACGGATGGTTTCACCGCCCTTACCGATAACTTCGCGGATTTTGTCTTGGTTGAT
TTTCATCGTGAACAAGCGTGGCGCGTGTGCGGACAGCTCTTGCGGGCCCGCAACGGCGGC
TTTCATCTGATCCAAGATGTGCAGACGCGCTTCTTTGGCCTGTGCCAAAGCGATTTGCAT
AATTTCTTTGGTAATGCCTTGGATTTTGATGTCCATTTGCAGCGCGGTAACGCCTTCGGT
CGTACCGGCCAGTTTAAAGTCCATATCGCCCAAGTGGTCTTCGTCGCCCAAAATGTCAGT
CAGGACGGCAAATTTGTTGCCTTCCAnAATCAGACCCATCGC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 945>:

GNMQN35R gnm_945

GCCTCGCCTTGCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCCTTGTCCTGATTTTTG
TTAATCCACTATAAAAGAGGGCGTCTGAAAAACATTTTTCAGACGGGCTTGTTTATTCAA
TCAAATTAGTCTTTCAACTTTGGCAACTGATTTTAAACTTTTGCCATTTTGCCTTCCAAT
TCCGCCAAATCGGGTTTGCCTTTTTCCCCCAAATTCCCAGGGGGTTTTTC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 946>:

GNMQN72TR gnm_946

AAACGTCCTACACATCCTTTTAGTGCAATTTCGCTTAAATTTGTTAAACTTGGTAGGGCC

CTTATCTTCGAAAAATTACCTCTTGTTAATATGTTGTGTATTGTTGTGTTTCGACTGAAA
TTGCGCCTTAGTAACAAAAAATTGTTCCTTGTTAAATGGCTGGGTGTGTTCCGTGTTAAG
GCGTGGACGTAGTCCAGGTTGCTCGAAAAGCTGGCTAGTGTGACCCGTGGTCTAAATTGT
AAACTGTTCCGTAATAAACGCCCACTGTTGCCCCTGACACAGGGTGGGCCGGATATGACG
ACGCTTTACCCTTTCCTAGATGGTACACTGGCGCTGAATTATGAATTGCGCGTAAACCTG
ATTTGTGTGTTTAAACTTGTTGTACCCCCTTGTGTTGCCCTAAGGGTGGGTGGGTCGACG
CTGGACGTGTGTATAAATGTACTGGGGTGCCTGAGTGTGATGGCCATGGGAATTGTGTTG
TCGTTTGCTnTTAAACTTTATATGTGTTTGCCCCTGGGTAGGTGTGTTAACATGGTCCTG
ATTAAACGCCTGGCCCTGGGGTGTGGAACTAGTATGTCTGGACC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 947>:

GNMQO54TRB gnm_947

GGGTGCATGCTTAAGAAAATTATTGTTACTAGTGTGATTAAGATTAGGTCGAACCCGCTG
ACGGGGGTGATCCGTGAGGTGCCGTTTAGCCGTAGGGTCCCAAAACAGGTGAGTTAAGAC
GTGTTGGCAGTAAGATTGGACAGGACGAGGAACGCTTAGCCGTGTTTTGCAAAGTTGCCT
ATATTTCGTTACCCGTTGGCGCAGGCCAAAAATAACAATAAAGTGGTAAGGACGATTAAG
GCGTGGACAAAGGCGGTGAAACTGGAACTCACATTTCGCAAATTTACCCCGGTGAAAACA
GTGGCTAACGAGGTGAAGTTCGTTGACGTTAACGTTTAAAATAGTTACGTGCCGTCGTTT
ACGCCCCTCTTCCGGACCGCGAATAACACGAATGGCACCCCCGCCGTCGTGCTAAAAACC
CTATCGTGGGCCCGGCGTGGACAATGCCACAACACGTTCGACACCACCCCTAACTTATTC
GCCCGCTGTTCGACGTCCCTAGATGGTACGCTTTCTTCTACCCTCAAAGGAAAGCTACGA
GTCCTAAAATTGACGTTGAAACTGTTAAACTTCTTATTACGTGTTTGACCGGTGAAACCC
GTTGTTAAGTCCGGCTCGAA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 948>:

GNMQP31TR gnm_948

GCTGTAAATGTTCAAACACTACGCCGTCCACGATTTTGCCGAGTTTTTGGAGCTGTACGG
CATGCCCATCCGTATCGGCAAATACGGCGCGGGCGCAACCAAAGAGGAAAAAAACACCCT
GCTTCGAGCGGTGGCGGAAATCGGTGCGCGGGCGTGGGCGGTCAGGCTTTCGCCGTGTGC
CAGCACGCTGGCGGTTTCGCCTAATTTTTGCGCGCCCTGTTCCGAAACCTGAATCAGGCT
GGAGCGTTTTTGGAAATCATATGTCCCCAAAGGCGAGGAAAAGCGGGCGGTTCGGCTGGT
GGGCAACACATGGTTTGGACCGGCGCAGTAGTCGCCGAGGCTTTCGCCGGTGTAGCGTCC
CATGAAAATCGCACCGGCGTGGCGGATTTTTTTCGCCCATTCCTGCGGGTTTTCGACTGA
CAGTTCCAAGTGTTCGGGGGAAATGTAGTTGGCGATTTCGCAAGCTTCGTCCAAGTCTTT
GGCGAGTATCATCGCGCCCCTGTTGCCGAGCGAGGCTTCGATGAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 949>:

GNMQP64TR gnm_949

ACAAGAAGCTGGTAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGG
CTGCATGAATTGGCACGAGCTCGTGCCGAATTCGGCACGAGCGACTGCATTGGGAAGATC
AGTTTTCCTGCCATCCAGGCTGCTCCCTCCTTCAGCAACTCATTCCCACAGATCTTCCGA
GACAGGACGGATATCCAGTGCCTTATCCCATGTGCCATTGACCAGGATCCTTACTTTAGA
ATGACAAGGGACGTCGCCCCCAGGATCGGCTATCCTAAACCAGCCCTGTTGCACTCCACC
TTCATCCCAGCCCTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 950>:

GNMQP64TF gnm_950

TGGGTACCCGGCCCCCCCTCGAAGAAGAAGGTCAGGTACATGAAAGACACGTCCACATCA
CAGTTGCCCCCAAACTGCCTGTGCTCCTCGATGGTGTCTCTCCCTCCAGAAAACGCATGC
TTATTGACCTTGGTTTTGATCTGCTTGGCCGTGTCGGTGAGGAAGATGGCGGAGTTGGGG
TCGCTGGGACTCATTTTGGTCTGGGCGACCTGCATGGCTGGGAAGAAGGTGGAGTGCAAC
ACGGCTGGTTTACGATACCCGATCCTGTGGGCGACGTCGCTTGTCATTCTAAAGTTAAGA
TCCTGGTCAATGGCACATGGGATAAGGCACTGGATATCCGTCCTGTCTCGGAAGATCTGT
GGGAATAGATTGCTGAATGATGGAGCATCCTGTATGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 951>:

GNMQR24R gnm_951

CTTGCCCGCAAAAACGTGGCGTGTGCACCCGTGTATACACAACTACCCCGTAAAAAACCT
AGTGAGTTAGCATCATATTGCTGCCATTTTTCACGGTCTTTCCCTAAATAAGCAGTAAAG
GCTTTTTCTCCCCACGGCACGAGGCTTGGCGATAAAATAGGCGAAAAGGCAGAAACACTT
TGATAACGTTCCTGATTCCGCAGCGCCAATACCAATGCGCCGTGTCCGCCCATTGAATGT
CCCATAATGGAACGTTTGCCGTTGGTAGGAAAGTGTTTCTCAATCAGACGGGGTAGCTCG
TTCAAAATGTAATCATACATTTGATAATTCGCCGCCCAAGGCTGTTCGGTCGCATTCAAA
TAAAAGCCTGCACTCTGTCCTAAATCGTAAGCATCATCGTTCGGCACTTGCTCTCCGCGA
GGGCTCGTATCCGGGGCCATCACAATTACTTGATGTTCTGCCGCATAACGCTGAAAGCTG
ACTTGGTAATGCAATTTTGTTCCGTACACGTCAAGCCGGAAAGCCAATAAATCACACCAA
GCGGTCGATTTTCTGGATTATCT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 952>:

gnm_952

GGCTGAAAATCATGCAGGACGGGTAATCGGCGGCTTTGACGGCTTCTGCCCAAGCCACCA
AGGATTCATCGGTGTCGCACAGCCGCCATACGTCCATATTCGGAATCAGGCGCAGGGTAG
CGGTTTGCTCAATCGGTTGATGGGTCGGGCCGTCTTCGCCCAAACCGATGGAATCGTGGG
TAAACACAAATACAGGGTTGATTTTCATCAAC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 953>:

GNMQU51TRB gnm_953

CTGTGGTGTGGGTGGGACGTTCGTTCCCCTTGGACCCAGAGGCAAATGACCCTGTTATCT
TGTTTCCCGTCCCTGGTATCCGTTTATTAGATAAACGTGGGTAGTATGCTTTTGCAGTCC
CCGTGCCTGTCCCCGGTCCTGTTTGGACGGGACCCGACGTGCCGTGGGGAACCGACGGGG
TTGGGGATGAGGATGCCGGTGTGTAGGCCGTTGAAGTGCCTTTACCTGCTGGTGGTGATC
CCGTATAGGCAGCCTAATGTGGTCCCGGATGTGTTGAAGTTGTTTTAGCAGGTCCCGGGC
GCCCTGTTGCGGTCCCTGTTGATGAAGACGATGGATGTGCTGGGTGATCGTCCTAGTAGT
GGGAATAGGGTGTGGGCTAGTTTTACAGGCGTGATGGCGCCGACGTGGCACCGGCCGATT
TACCTGGTGATGGCCCGGAAACTTAGTGGTGAGAGGGTGCAAAAACAGTTGGTGTAGCGG
ATGACGTTGCTTAGCCCGTTCCGTGCGGTCCTGGTAACGGCGGTGGTGAAACGCCTAAAC
CTCCCCCTCCTTGTGTCAACAAGGCTAAAGTAGACGGTGAACGGCCTGGGGCACTTGGTC

CTGATAACTGTGCTACATATCCCCC

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 954>:

GNMQU68TRB gnm_954

TTTGATAAGGAACCCTGTCATTCCAGGATTGCCACAGCCATGGTTGTTGCCCATCGGGGT
CCTGACTTGACGTCTCTATACTCCTAACCAATTCCTTAGTATTGGGTAGGTGCTATATTT
CACATGCTTATCCCTGCGCCAGTAGAGCGTCGCGCCCCCAACAAATAGCTGTAGTTATTC
ACCTCTCGTGATTTCTTGGGGTCCATGGAGTAAGCTTCCAATTCCAGAGGGTACATTCCT
CTTTGAAGCCATGGCACTAACCCGTTGAGCCTTCCTCTTCGAGCCTCTCTAAGTGTTCCA
GAACCTCTACTTCGTTTATTCGCGCTGGCCCGTGGCATGGCCTGACCTAAATCGAAGTCC
AGCGGTCCCCTTCGGAAGTGCGGCACTGGCCGTCCTGCGCTTGCAGATATCTGCTGCTAT
CCTCTGGCGCCAAGAAGATTTGGACCCGTTCAAGCTCCTTATTCATTGGTCCAAATAAGT
CACCTTAATAGTCCGTTAATTCAATTCCTCTTGCTTTTATACTGTACCCGAACTAAGCAT
AGGAACACCAATTCGCCCTTACTGATCATGTACCCTCGTTCTGTTCCAGGGGTTGATCTA
TTTCATGTTGACGAAT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 955>:

GNMQU88TRB gnm_955

CGTGTGTTGCTGGCTTGACCTCGTTGGAATATAAGTTGTACCATTCGACGGGTGCAGGTA
TGTTGGAAGATTCTGCGCATGGTGCGGTATATGGTACTGACACGCCTGATCGTGCGACGT
TTATTTGTAACGTATGTAATGGTCGGTCGCCCATTTGCCCTGGTGACCCGAAAACTAAAA
ATGTTAAATATAAGTCTGATAAGTGCTTGACAGATGAAAGTCGTATTCGTCATGTTCGTT
AAAATCCTAGTTGTGTTCATTCGTATTACTCGTATTGTATTGGTGAAACTCCGGGTGTAT
AGCCGAATATTACTTATAACTCGTACCCTCATTAAGCTACCACGGTGGAAACGTGTGAAG
TTGCTGAATAAGGTAAACCCGTTGATCGGTAGGTGTGACCTTATGAAAATTGTGTATGTG
GTATAGATCGACCTTTCGTAACGTTGCTCGAAGTTGTCCTAGATGGTACCCCGTTGTCCC
ATTTCATTTGTATCACCCCCTAGAAATTGACTACGTCCTTACCTCCCTTAGAATTTCTTT
CCCTTCACATGTAATAAAATTGCATTGTTGCCCCGTCGCCGAATTCTGGTATGTTTGATG
TGTTGATTG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 956>:

GNMQX55TF gnm_956

AGGATCCCCACGAACACAAAATGACCGTACAGACCAAGACAAAAGGTTTGGCGTGGCAAG
AAAAACCGCTATCCGACAACGAACGTCTGAAAACCGAAAGCAATTTTTTACGCGGCACGA
TTTTGGACGATTTGAAAGACCCGCTCACGGGCGGCTTCAAAGGCGACAACTTCCAACTCA
TCCGCTTCCACGGTATGTATGAGCAGGACGACCGCGACATCCGCGCCGAACGCGCCGAGG
CAAAACTCGAGCCCTTGAAATTTATGCTTTTGCGCTGCCGGCTGCCGGGCGGGATCATCA
AACCGTCCCAATGGATAGAACTGGACAAATTTGCCCGGGAAAACAGTCATTACCGCTCCA
TCCGGCTGACCAACCGGCAAACCTTCCAATTTCACGGGGTGCCGAAAGCCAAGTTGCAGA
CGATGCAACGCCTCCTGCACAAACTGGGTT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 957>:

GNMQY03TR gnm_957

CCTACTCTCCCTAAGCAACGAGATGAAACAGCGTATCGACTCCCTGCCGGTTGAATTTTC
CGAAAAAACGCGACGTAACCAGCATCAACATATATAAGAACAGCACAACTAGCATCAATA
CATCAGGCAACGAAAATGCAGAATAATGCACTTAATGGTGTTTGGATATCTGTTGTTTTG
TGCTGTTAGTAATTCATCTTTCTGTGTTTACAGTTTAGCAGTTGTACAGTTTTATAGTAA
TGTTTAAACAATGACTGATTTATTTTAAATGCAGATATTGTCGAGGATAAACATGGCCAA
AGCCCTTTCAGTAACATTTCTGATTTTTTAGCGAGCCTTCTCATTTCCCCAGCGAGATCG
GTACTGGTACCTGTACTTTGGCCGCCGATATGCTTAAGTTCAGTAACCTTAGCGCGCAAA
TCCAGTAACCTTACGTTACGT

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 958>:

GNMRB37TF gnm_958

CACCAACCTATGTGTCGTCCTGATCTGGGAGGAGTTGTCCCTCCCAAACAAATCTGATTC
TACCGCCCCGAAGAGCGGGGTTTCAACCGACAAGGAAGATTGATGAACAATATGTTTGCC
GCAAAATTGTCCAAACTGGTTTATACCGCTTCCGACCATCCTGATTCCCTGTCGGAGATG
GAGGAGTTTGACCGCCTGATTCTGCTGATACGCAAACTGTATCAAATATTGGACGGGCAA
CATATCCTCTCCAGAGTAACGGTTTGCCTTCACCACCAAAACCGGCGCGACCTGATTGCC
TTGGATAAAGCGGCTGCCGGTTGCGATTCGGCAATGTTGCGCGCCCAACGTTGGCTCGGA
CGACATGGTCGCCGCCATAAATTCGGCGGGGTAGTGCGCTTTAAGCCATGCGGTCTGGTA
GGAAATCAGGGCGTAnGCGGCGGCGTGGGATTTGTTGAAACCGTAGCCGGCGAATTTTTC
CATGTAGTTGAAGATTTCGTCGGATTTTTCGCGCGAAATGCCTTGTTTTGCCGCGCCTTC
GGCGAAGATTTCGCGGTGTTTCACCATTTCTTCGGGTTTTTTCTTACCCATGGCGCGACG
CAGCAGGTCCGCGCCCGCCGAACGAGTAACCGCCGGATAATTTGCGCCGCCTGCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 959>:

GNMRF35TRB gnm_959

TATCGCATTGTAAAATAGTAAACAAAGTAAAGTTTGGGCGGTGGAACCGGCAGATGTGTC
AGTCCTAGGCGTCAGCACTTCTATGGGCGCGGAAGCCTGAGCTCCTCTTTGGGTATTAAA
CTAAACGTCCCGTCCCACCCTAACACCCAGACCGTTTGGGCGGTGGAACCGGCAGATGTG
TTAGTCCTAGGCGTCGGCACTTCTACGGGCGCGGAAGCCTGAGCTCCTCTTTGGGTATTA
AACAACAAACCACTTTGACCGGGACAACCCTTGTTACCAGAGAGGCGGACGAGCGGCCCA
AGCTGTATGTTCGGAAAGTGCGCACATGCGAACAGTGCACTGAGGGCCTGAACTTTCCTT
CTCTCGTTAAACATAAACTTTAAATCCCCATGGCCCGGGACCCCCCACCACCTAAATAAC
AACCCTACCGGGAAAATTTGCCACCGCTCACAACTGCTACTAATTGTCCATAATCACTTG
CCATTGCCCCCCGCGGCACGCCCCGTGGCACGCCCCATTTCTCCTTCTAGTTCGCAAGGA
TCTAAAAGGTGCACCTTCCTAAATGGTACCGCCTGATACGTCGTTGGGAAGTTGAATTTG
ACATTGAAATGTGATGGGGTGACACATTGTCGGAAAAACGGTGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 960>:

GNMRH76TR gnm_960

CATGTTGGTGTTCTCATTCAGCCCTTTCTCCCAAGAATGGTAAGGACGACAGGCAACGGA
CGGTAAACGAAGAGCTTGAAGAGTTCGTTCAACTCAATCGAATCCGCCCCCGTTTTCAAC
ACCCAACCCTGTCTGCCGGAATAGATGTAGCCGTGCCGCGCCAGCTTTTCCAAAAGCTCG
CCCAACTCGTCGTAGCCCATATTGATATGCCGTCTGAACTCCTGAACAGGCAAGGCTTTG
CCTTCTTTTTGCGCCGCATCCAGAAGCAGCAGGATTTTCAACACGTCGTCAAACCGTCCG
CGCGAGTCGAAGCCCCTGCGGAACGCTTCTCCCTGCCAGTAGGAGAGTGAAGAAGTCAGC

CGCGAGTCGAAGCCCCTGCGGAACGCTTCTCCCTGCCAGTAGGAGAGTGAAGAAGTCAGC
ACCGCGCCGCCCAAGACCAGCGTCCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 961>:

GNMRI44TR gnm_961

TAAGGCAAAAACAAGCGTTTTCGTCATTTTGAGGCGTGTGGATTATTCCTTAGGTATTTT
CGGGCCGGAGACCAACGAGGTGGCGGGTGTCGTCGGTACGTCCGGAGACCAAAATAACTT
TGCCAGGGATGTTGGTTTCGGCGGTCAAAAAAAGTAGCGTCTTAATGTTTTCCATTTAAA
CAAATGTCGGTGAGGATGCGGTTGTTTAAAACGATTTGCATGGCGTTGTGCAGTTGCAGC
AGGTAAACGGTCGGGGCGGCGAGTCCGATGAGGACGCGTTCGGCGGTGGGGTGGATGCGG
AAGCGGTGCATCAGTGCGTTGTTGTTTTGGAGCCGGCCGTTCATTTTCCAGTTGCCGATG
ACCCATTTTTGATCCCACATTCCGATTTGGCGATACATCTTTTTTGCTCCGTGTCGTGTT
TTTTTGTCTGCCGCGTGTGGCGCGGTGCAACGTGAAGTTTAGTGGATATGCGGCGGGTTC
GCAACTTGAAGCGGCCGGCCGGGCGGTTTGGAATGTTGTTTCGGGCAGGCTGTTTTATAA
TGGCCGCCTGATATGTATGCAACTATAGGAGATGTGATGCACGCGCTTCATTTTTCGGCT
TCGGACAAGGCCGCGCTTTATCGGGAGGTGTTGCCGCAGATTGAGTCTGTGGTGGCTGA